

FIG. 1

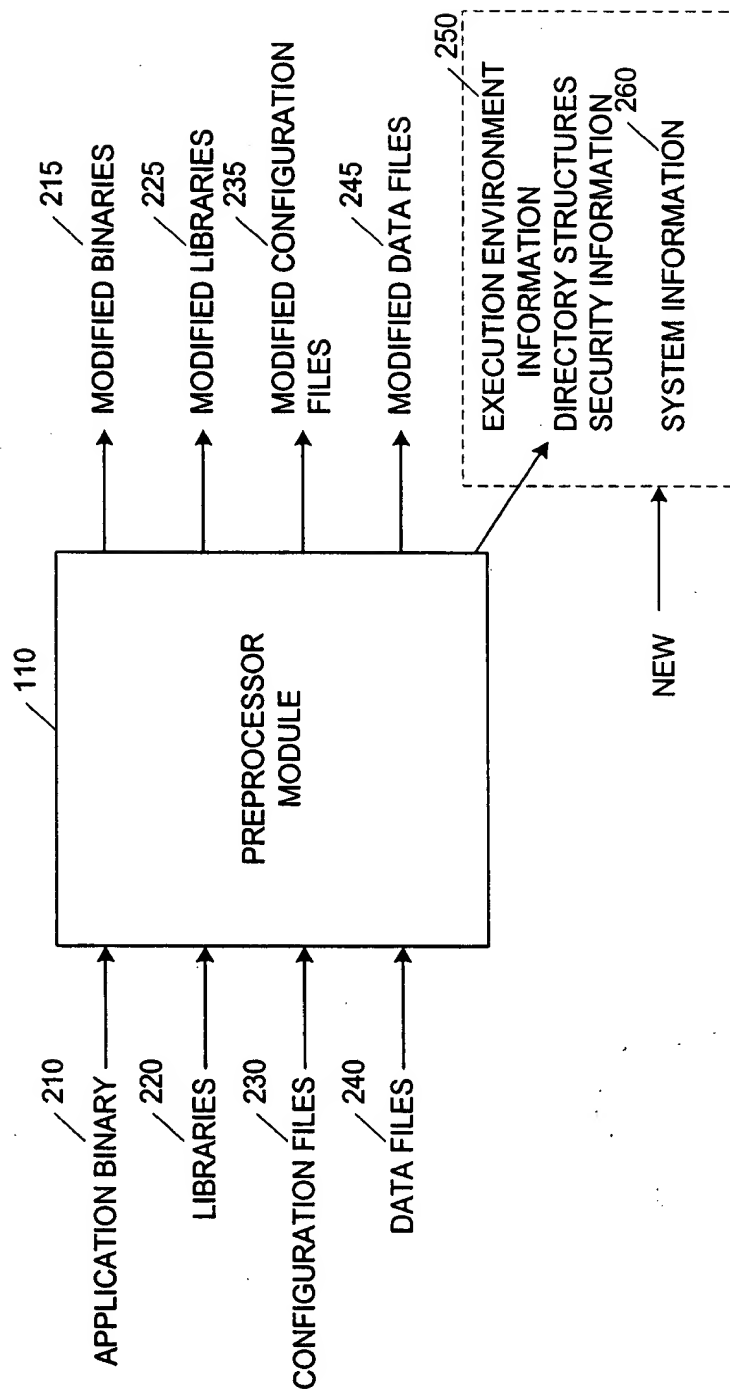


FIG. 2

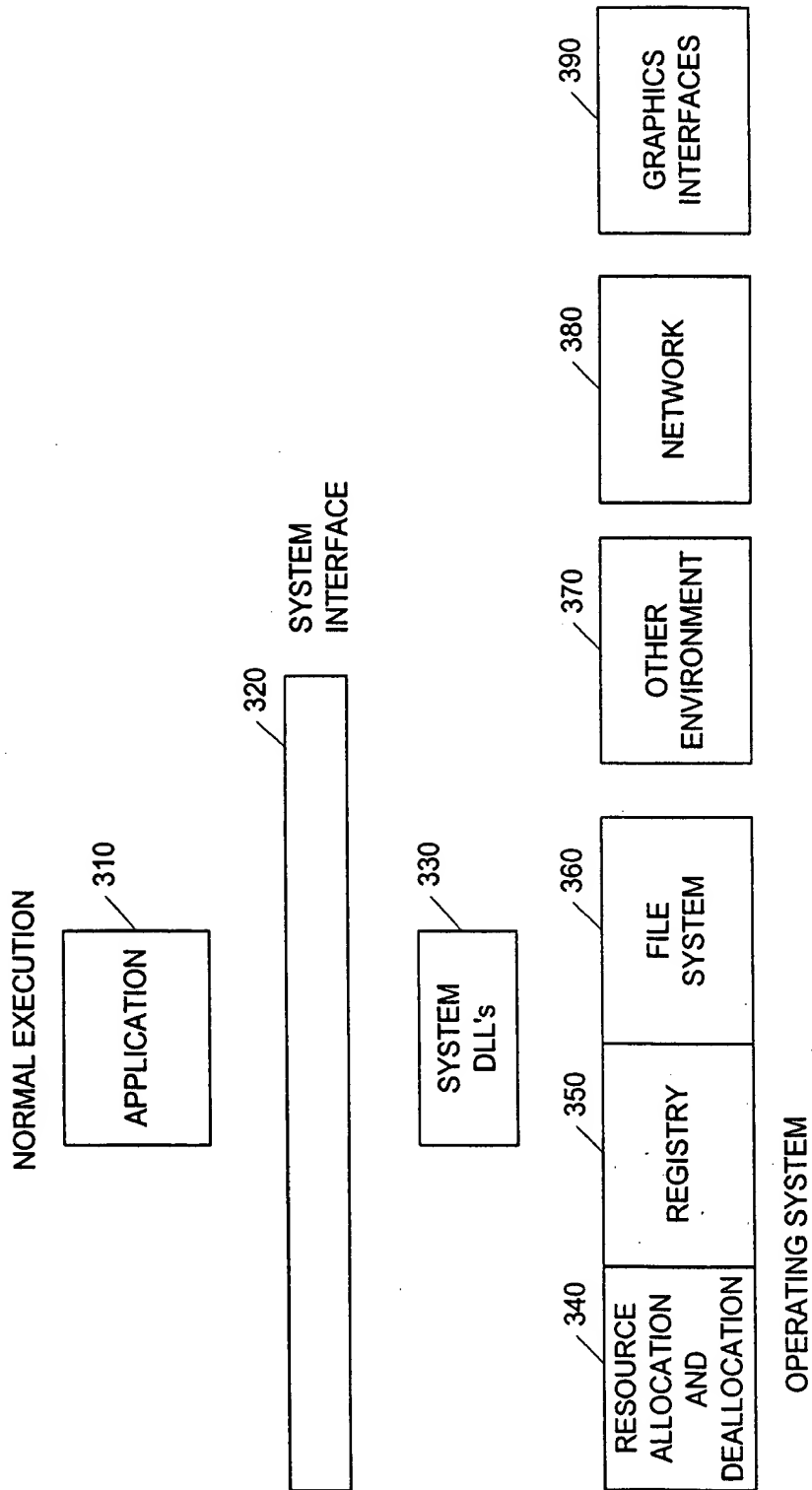


FIG. 3

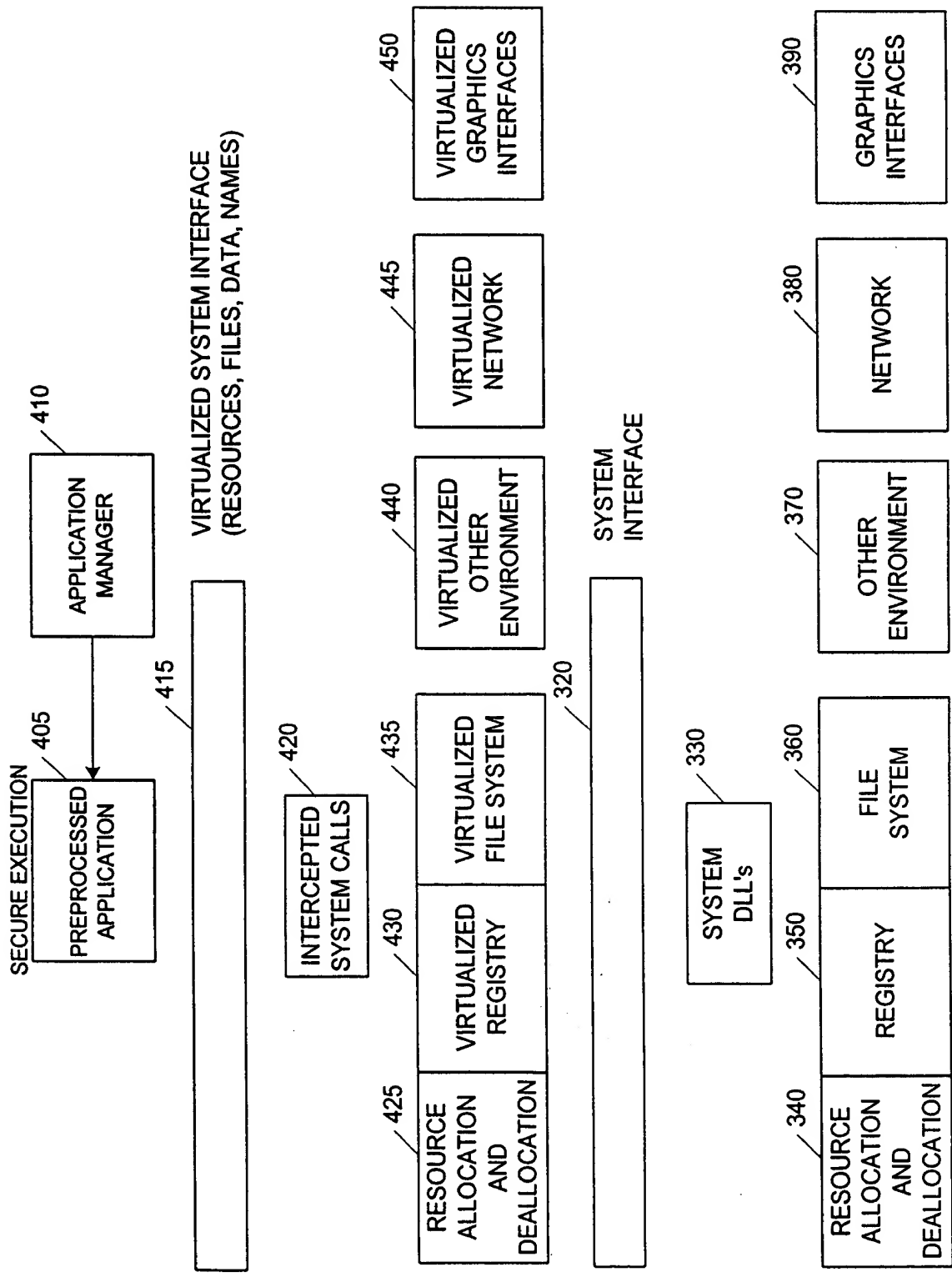


FIG. 4

BEGIN

COMPILE SOURCE
CODE INTO OBJECT CODE

PREPROCESS APPLICATION PACKAGE FOR EXECUTION IN THE SECURE CLIENT ENVIRONMENT

```

APPLICATION MANAGER ON CLIENT
RETRIEVES
MODIFIED OBJECT CODE FROM SERVER

```

```

INITIALIZE APPLICATION PACKAGE
AND PATCH LIBRARIES

```

VIRTUALIZE INTERCEPTED CALLS
DURING EXECUTION

TRANSMIT RESULTS TO
SERVER

```

graph TD
    Start([START]) --> Read[READ]
    Read --> Print[PRINT]
    Print --> Return([RETURN])
    Return --> End([END])

```

FIG. 5

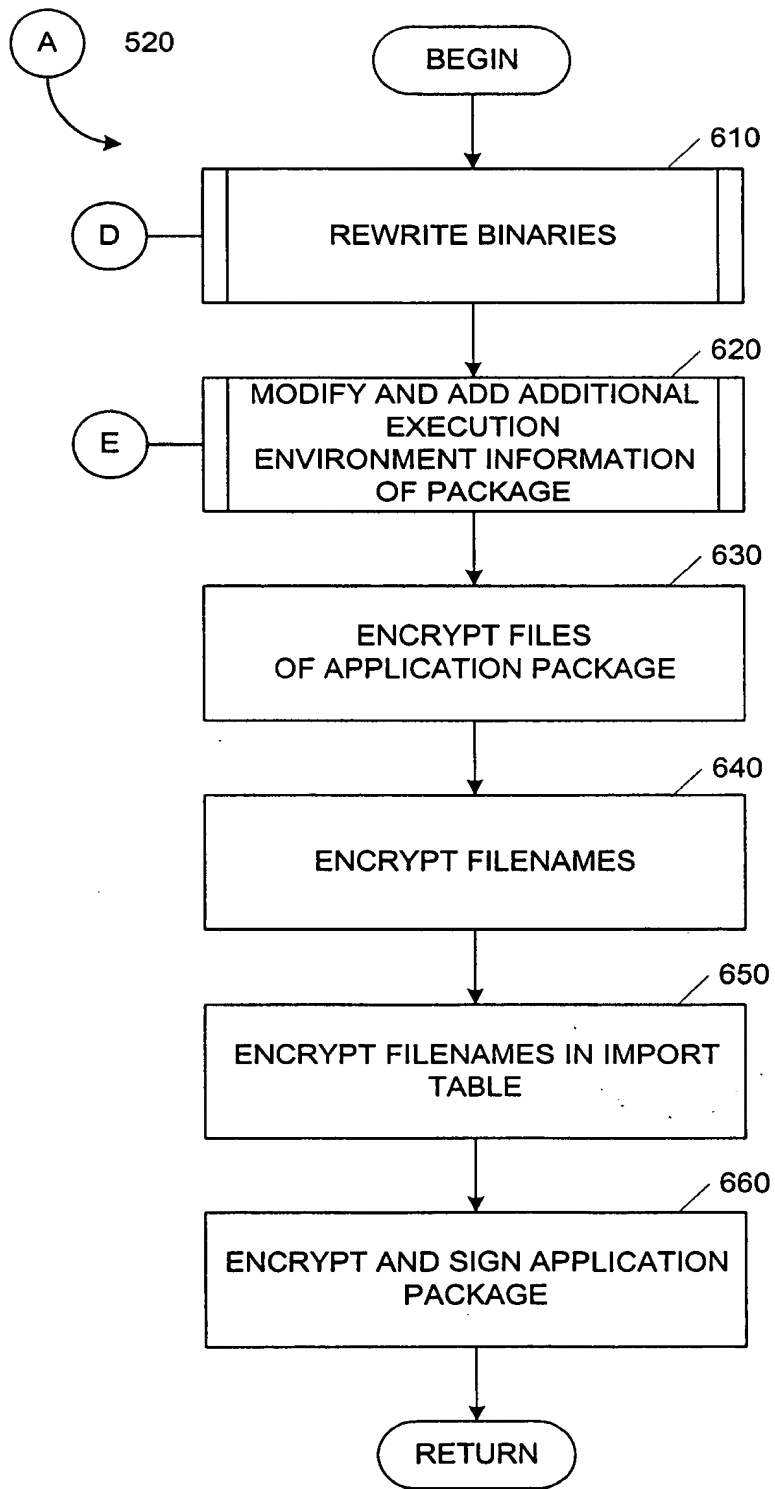


FIG. 6

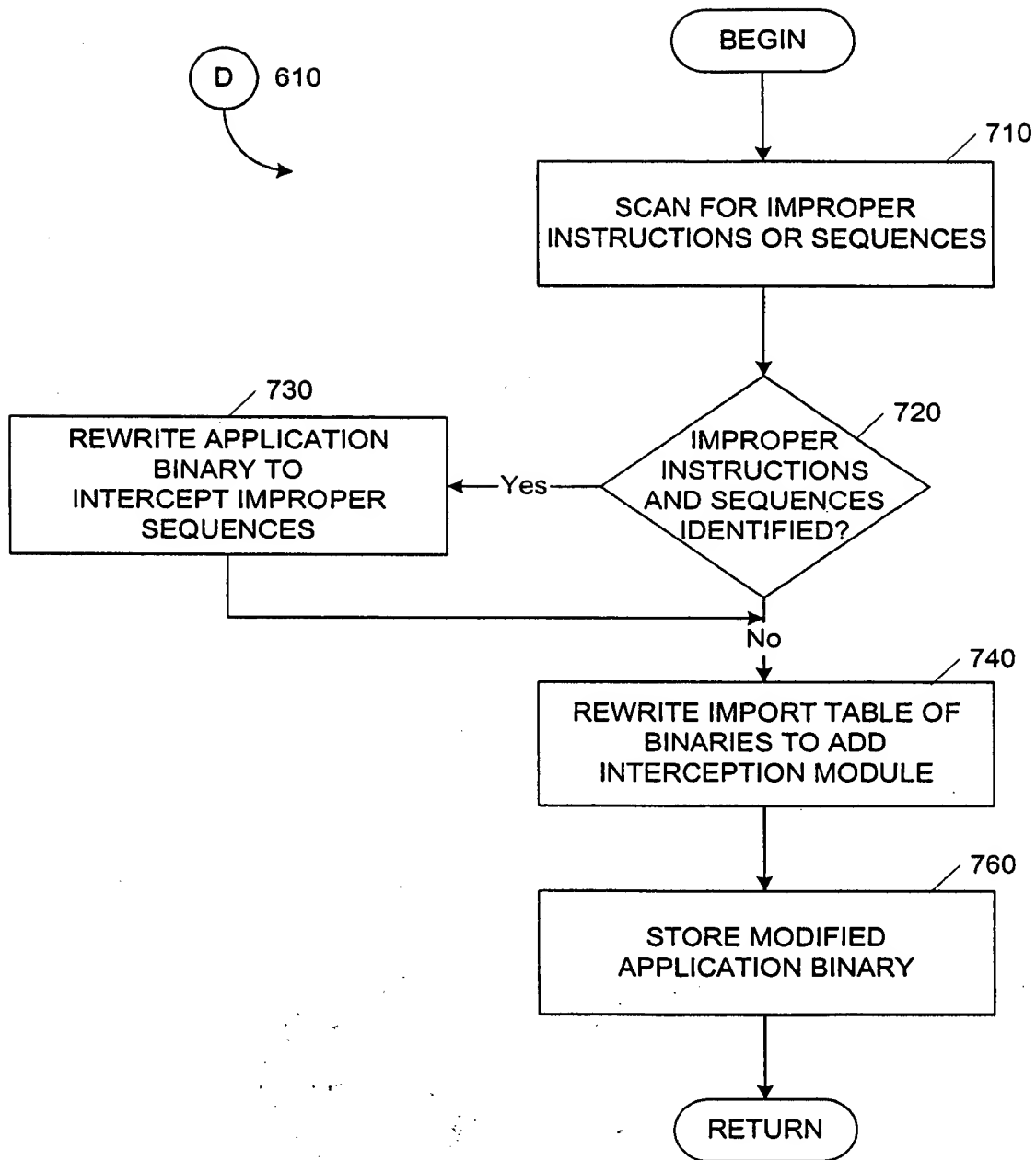


FIG. 7

FIG. 8

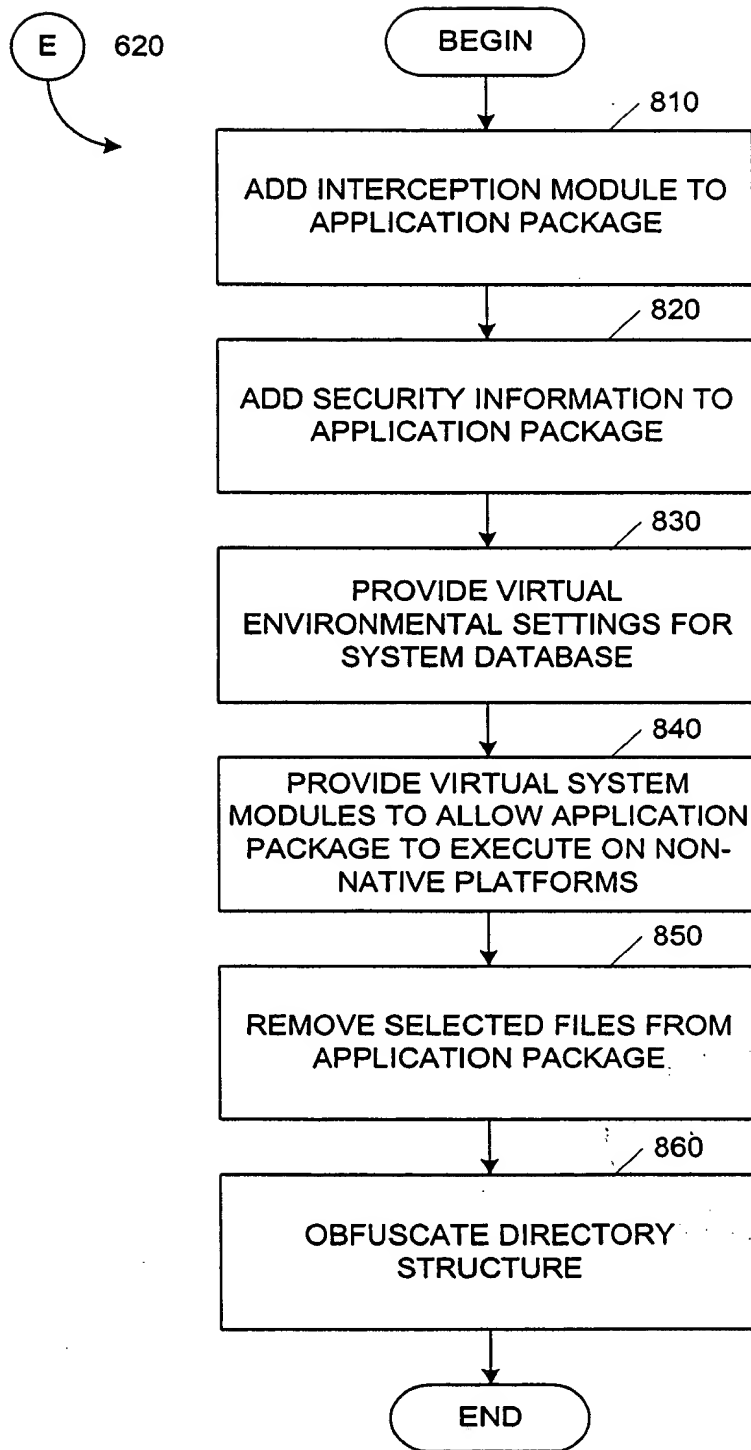


FIG. 8

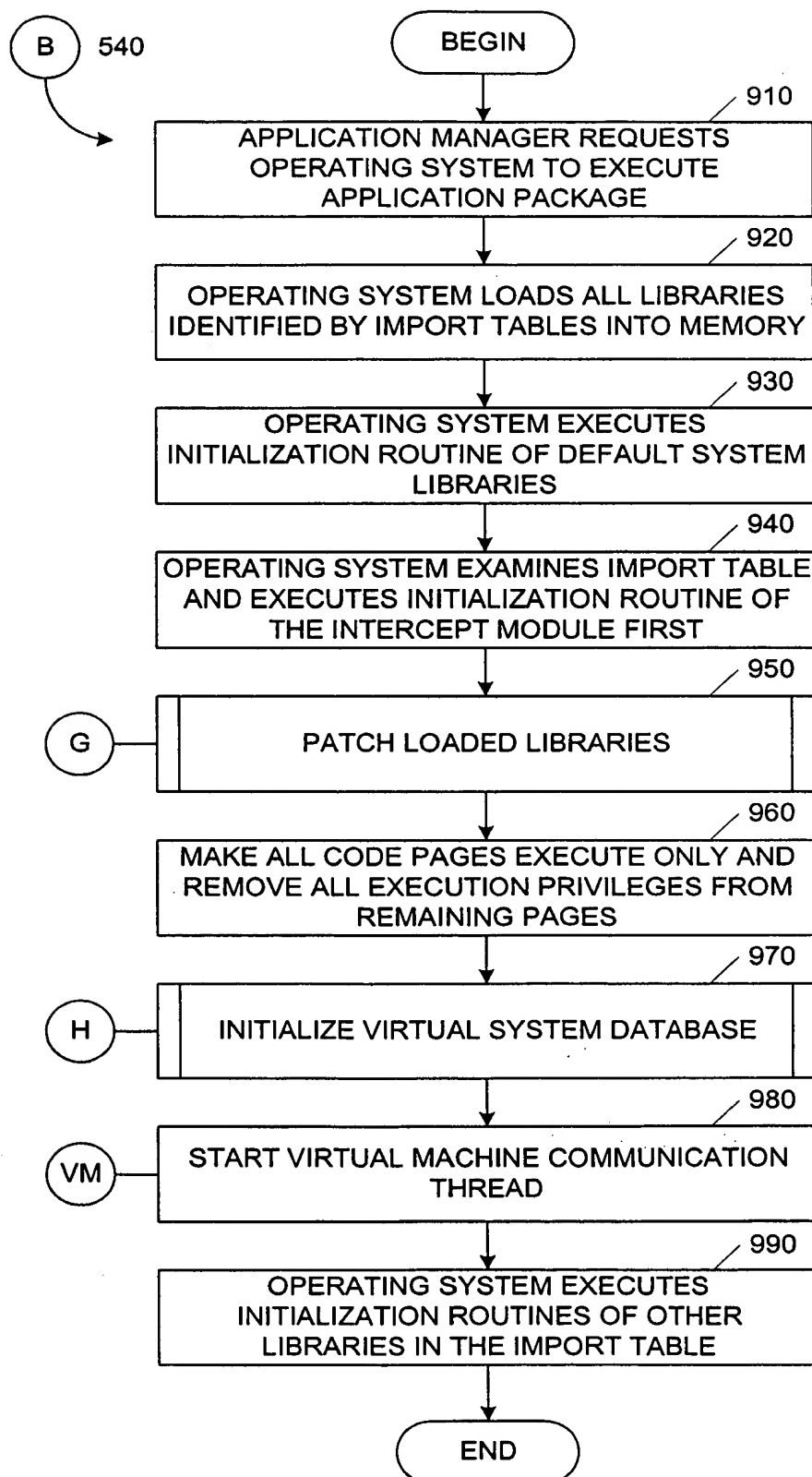


FIG. 9

FIG. 10

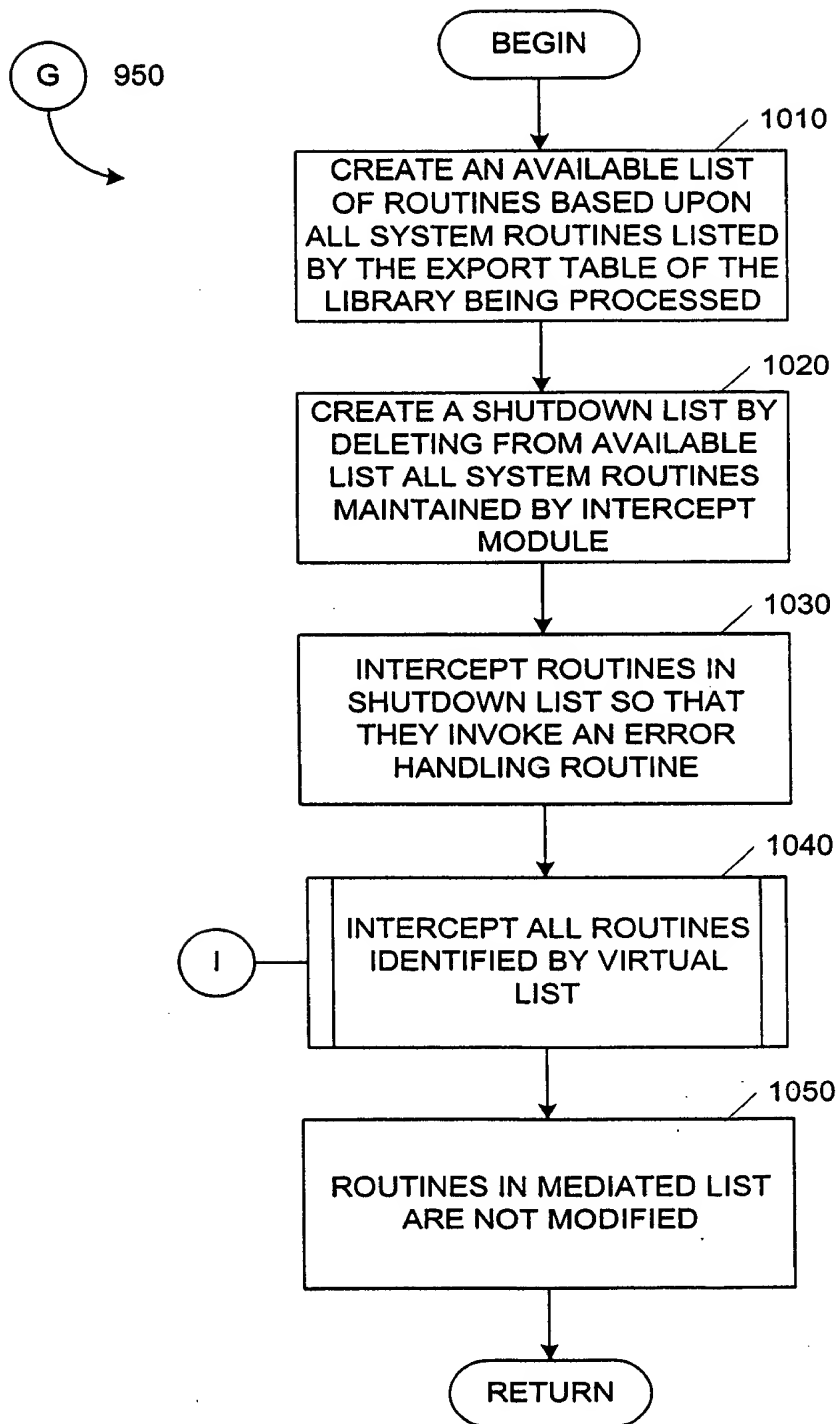


FIG. 10

1040

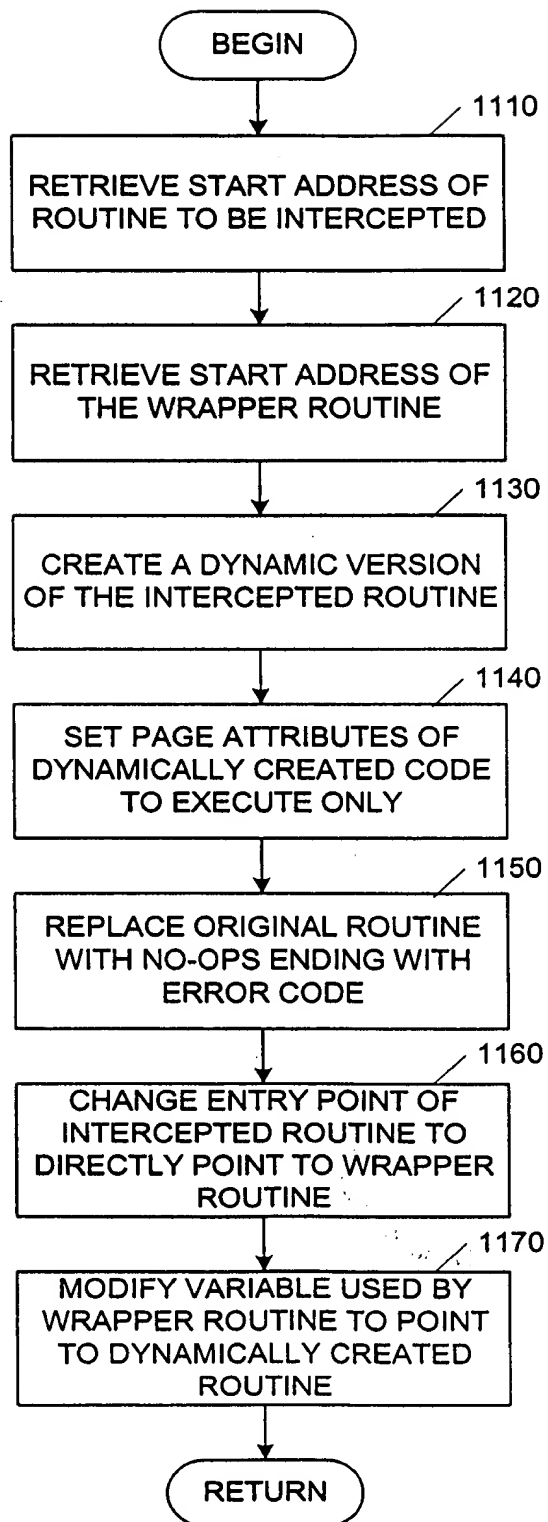


FIG. 11

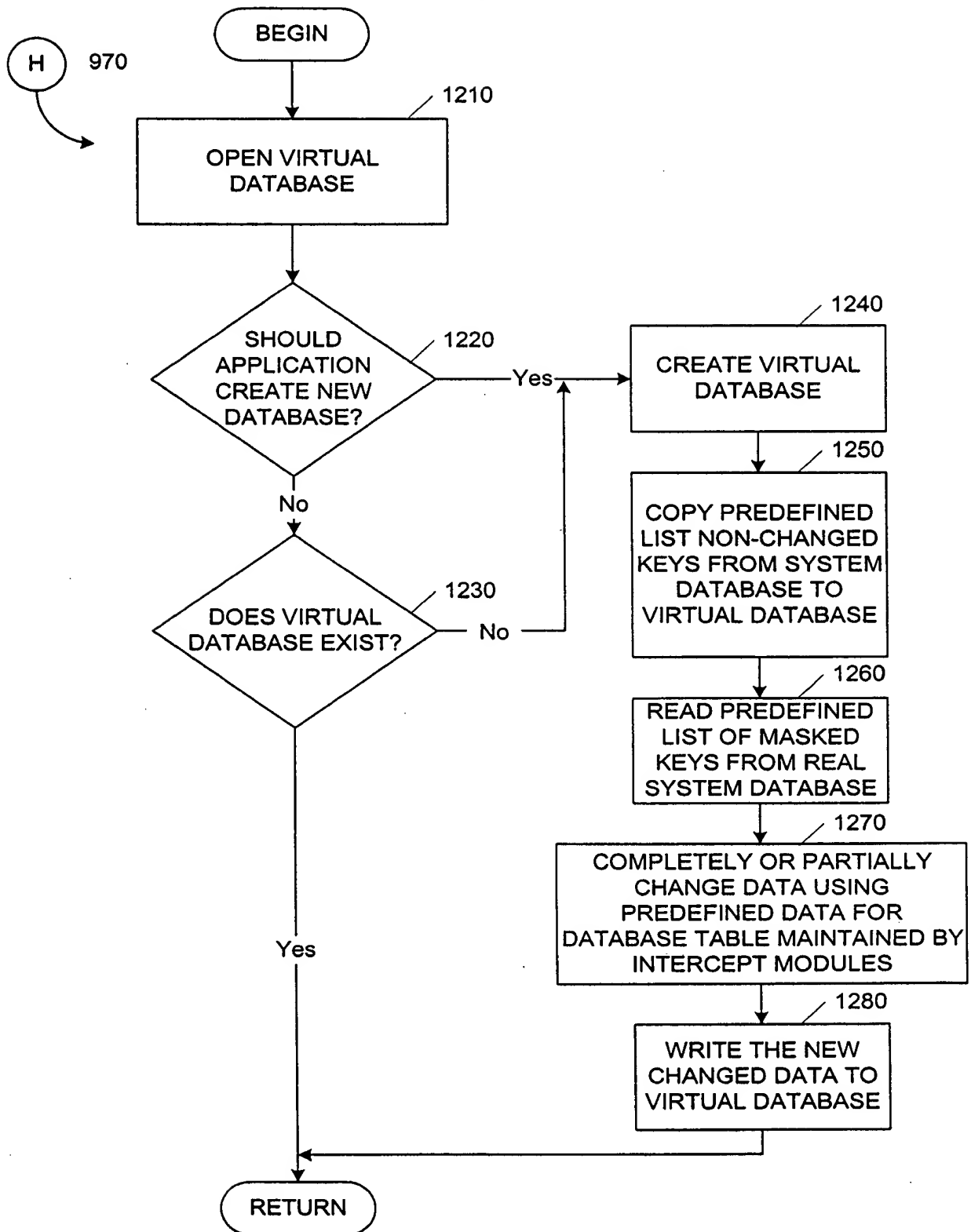


FIG. 12

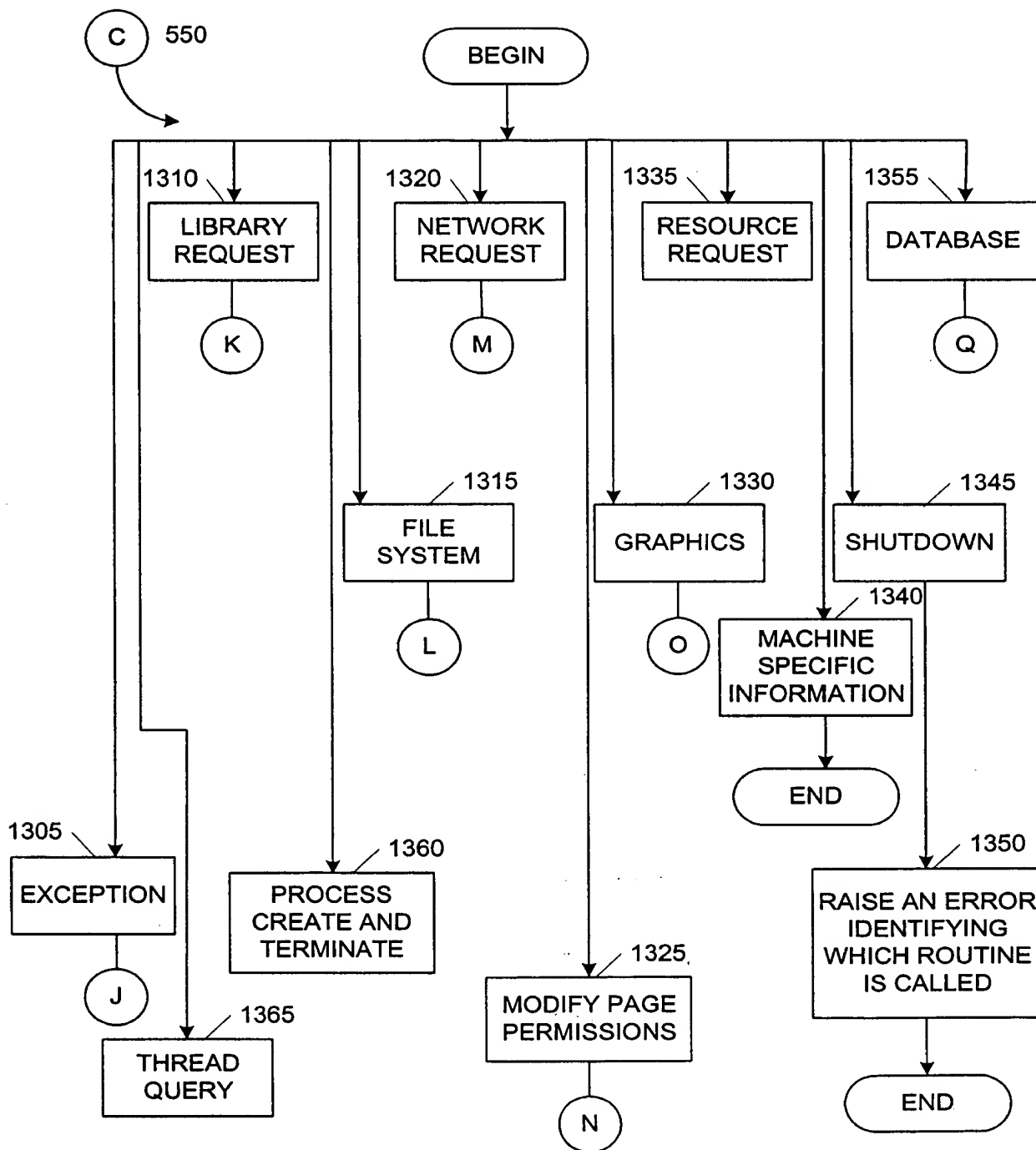


FIG. 13

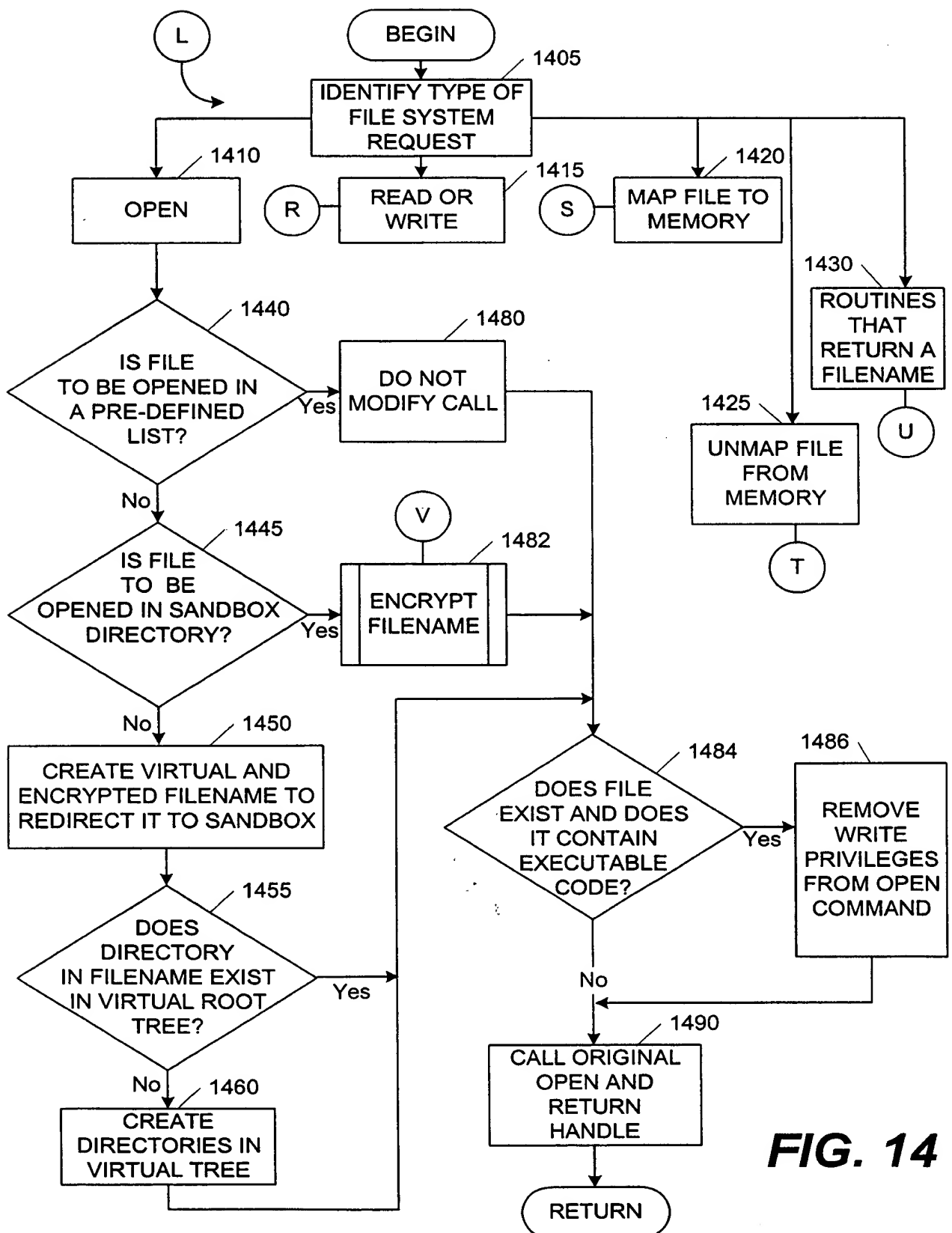


FIG. 14

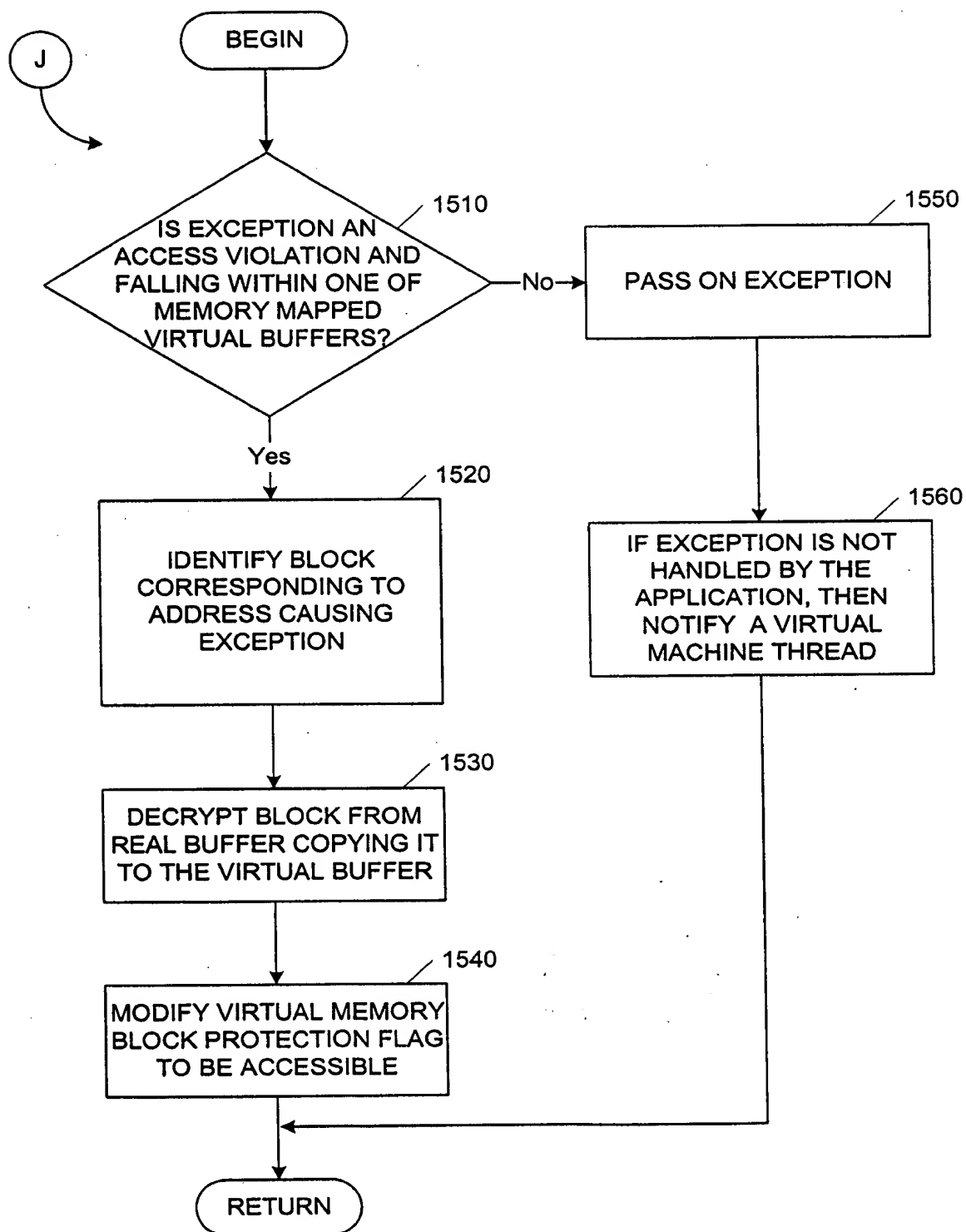


FIG. 15

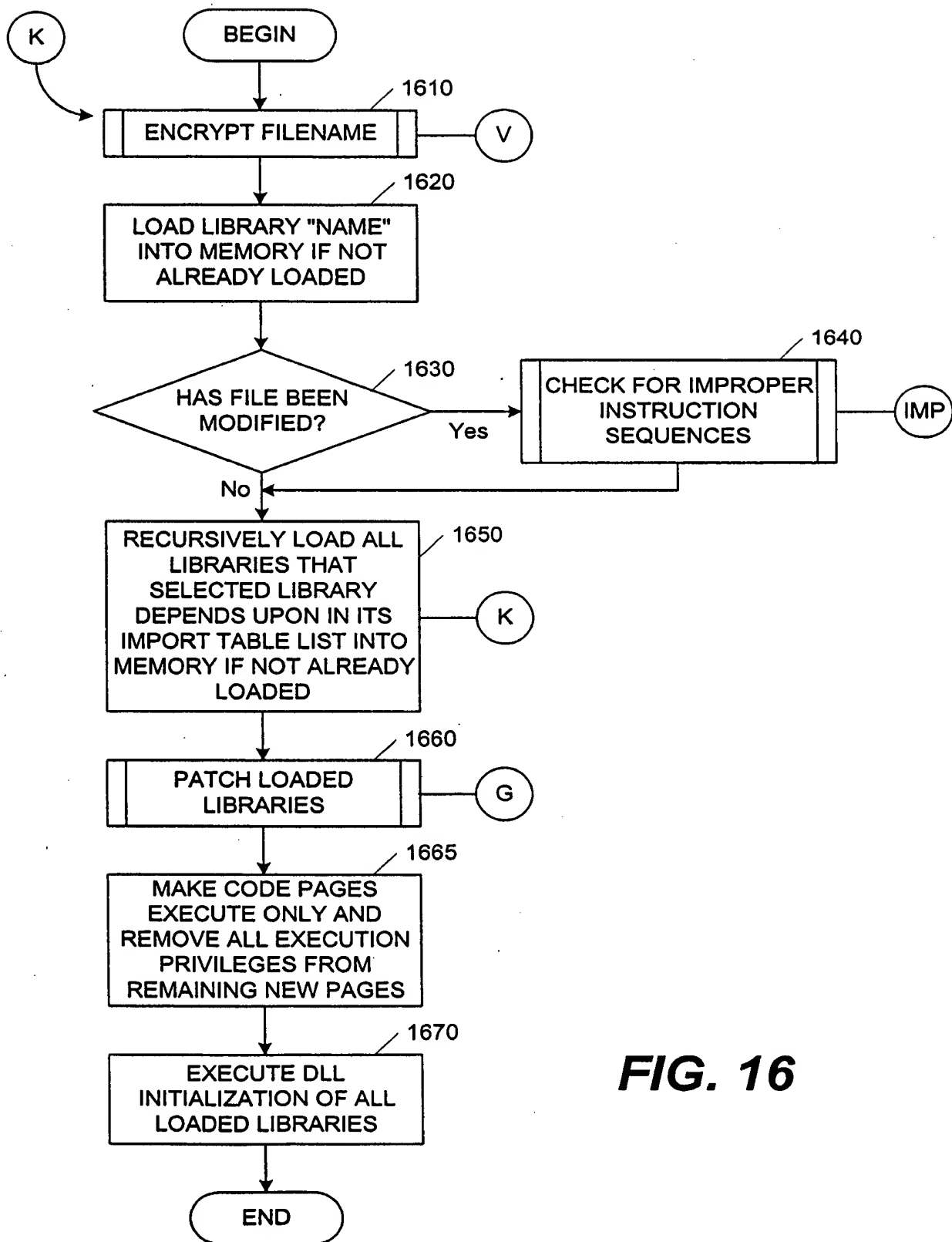


FIG. 16

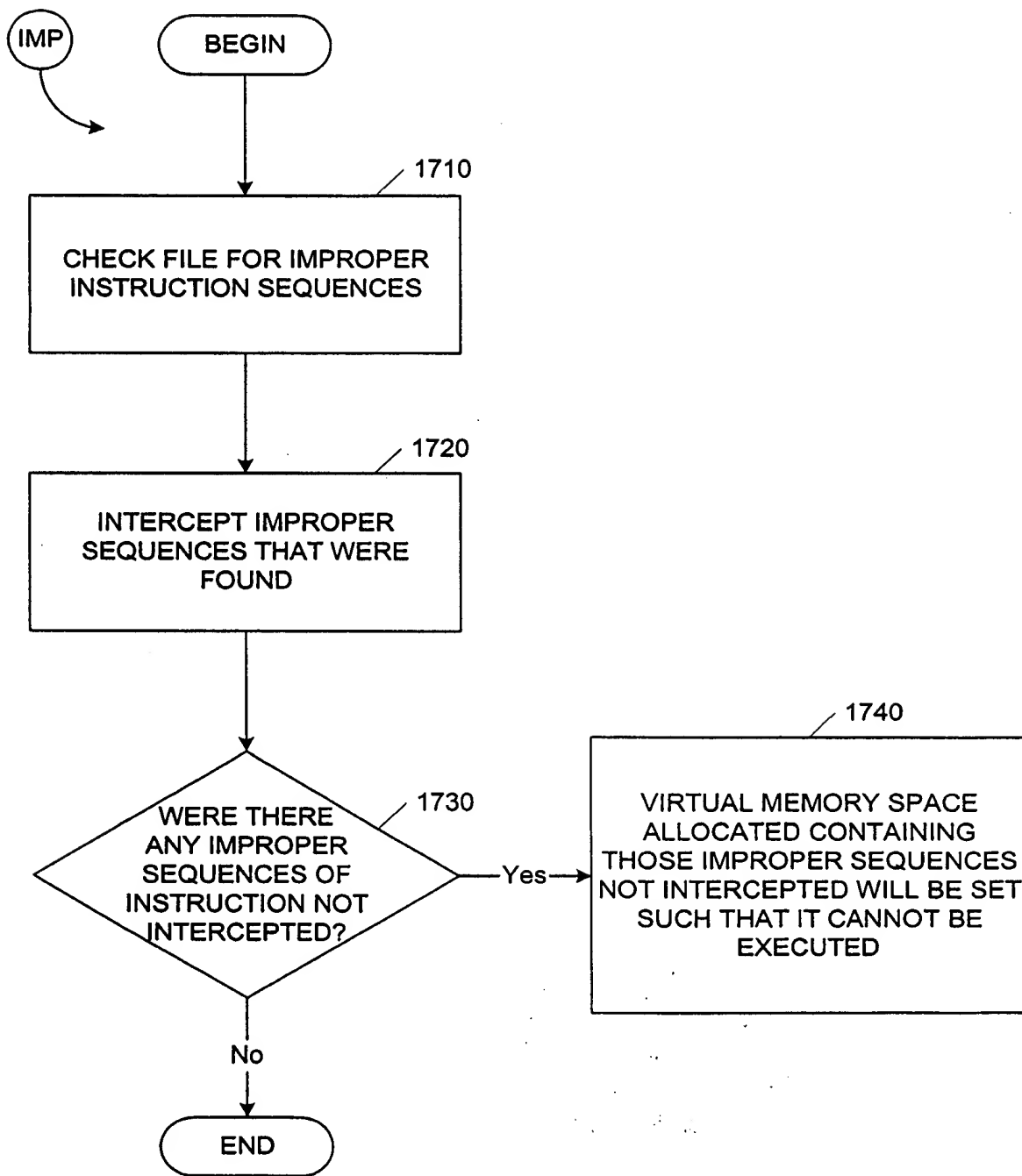


FIG. 17

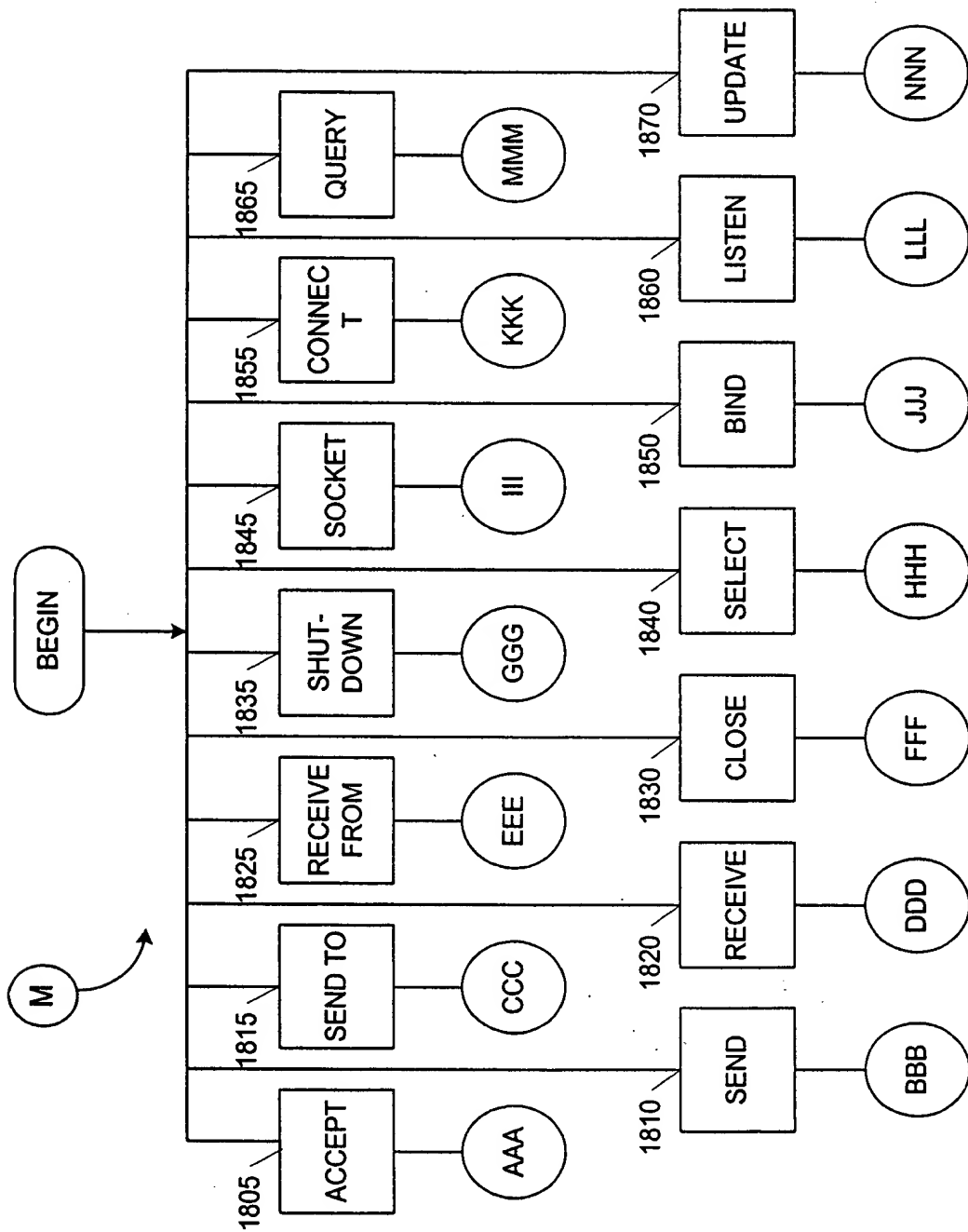


FIG. 18

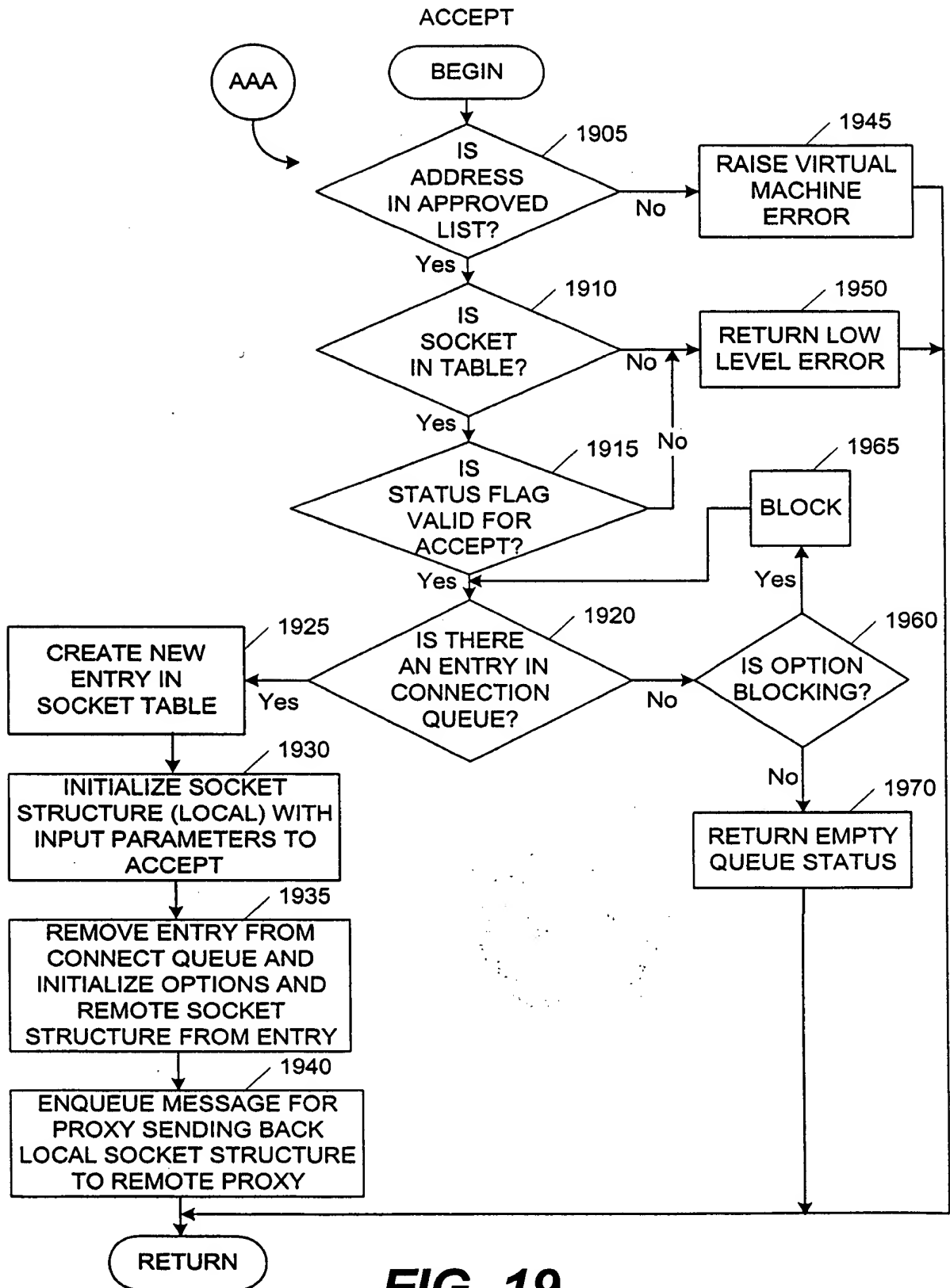


FIG. 19

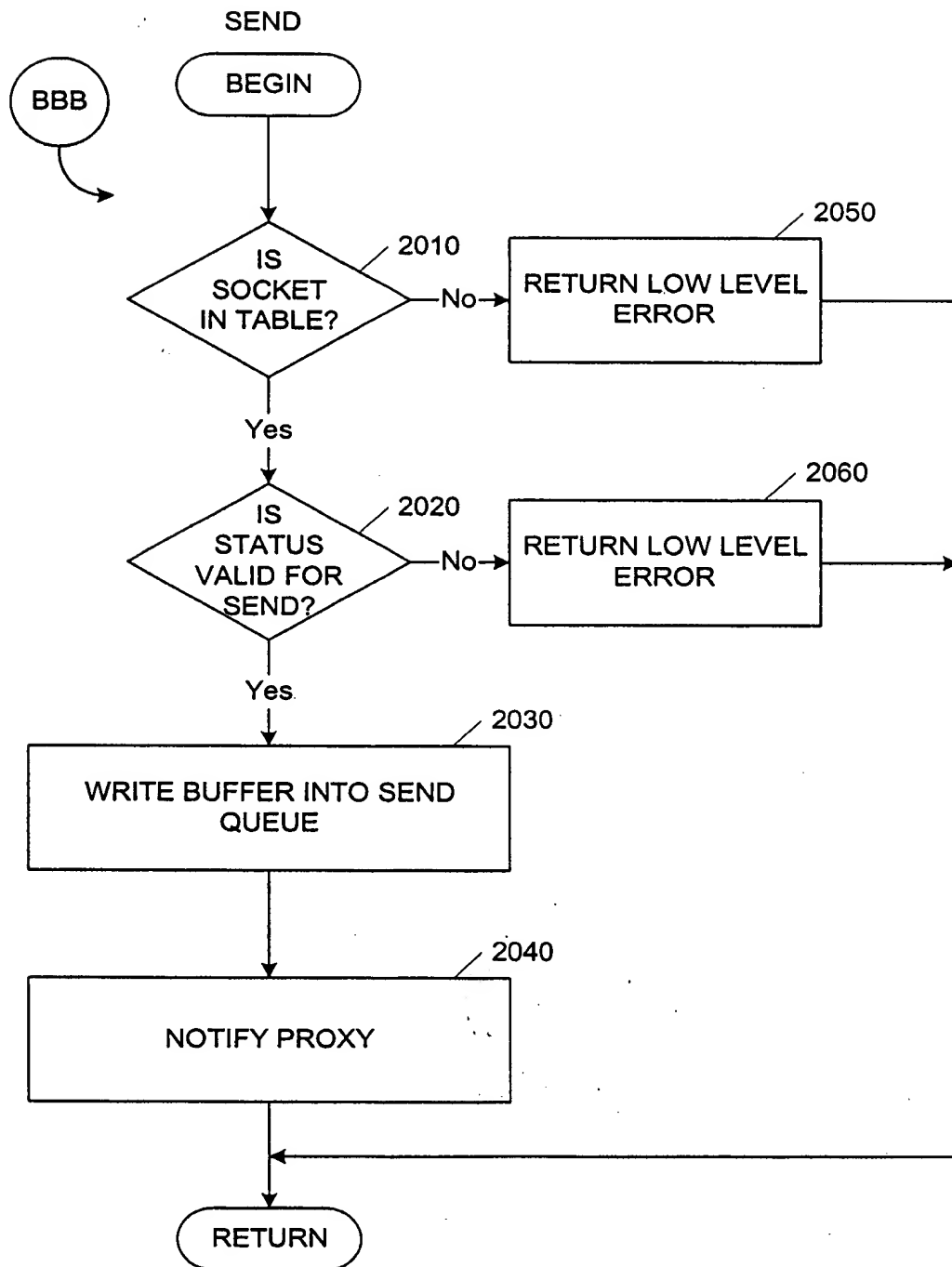


FIG. 20

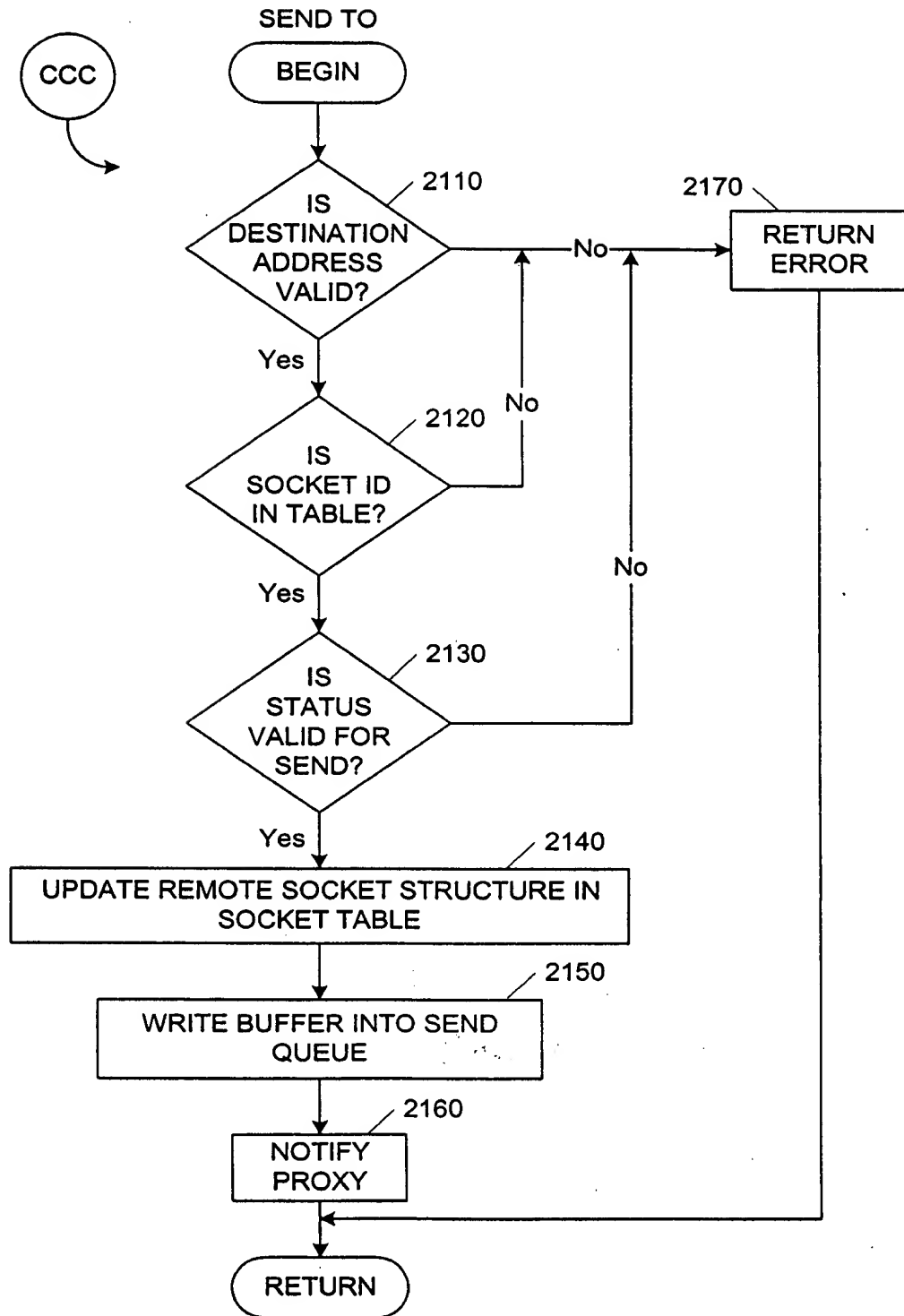


FIG. 21

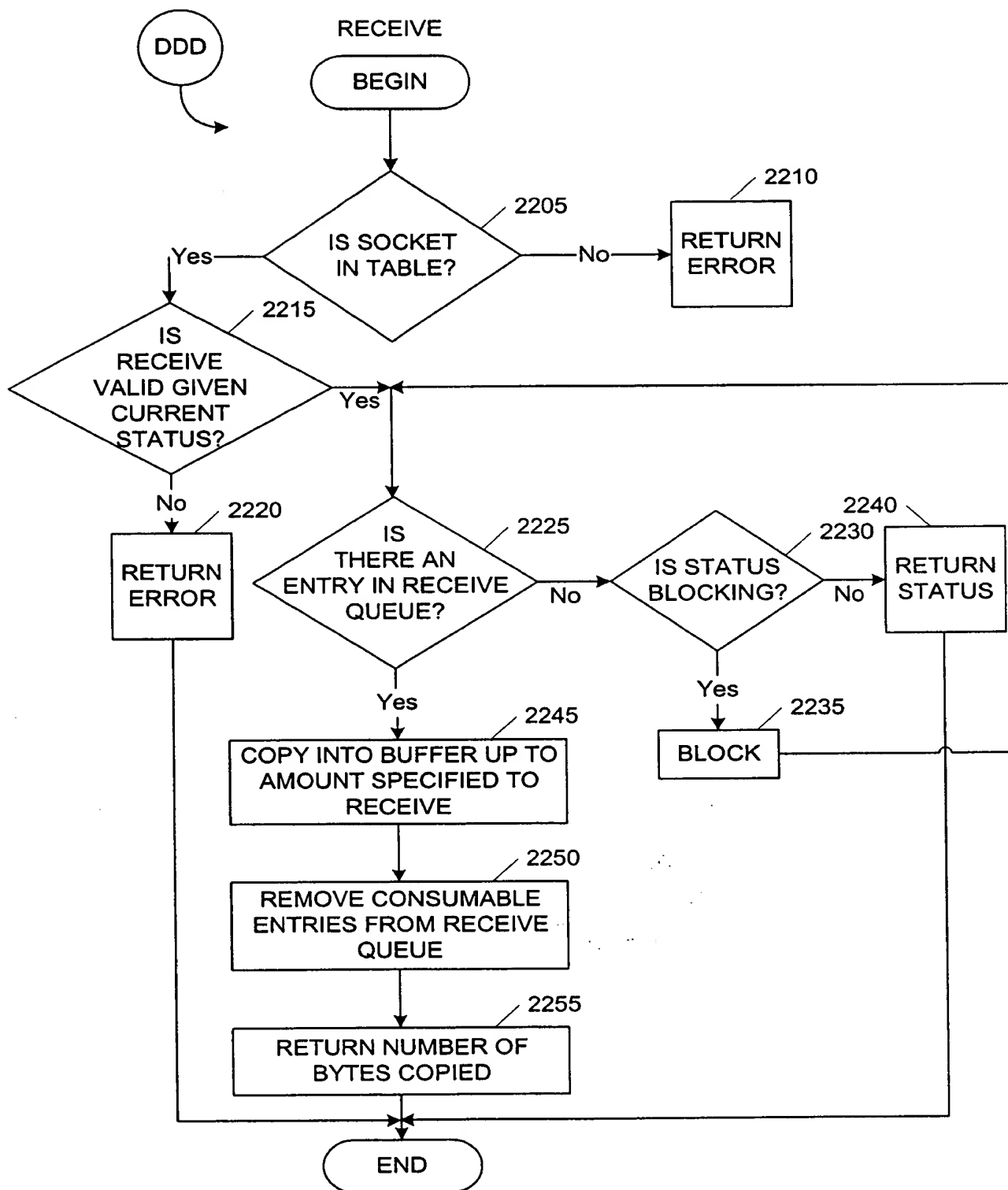


FIG. 22

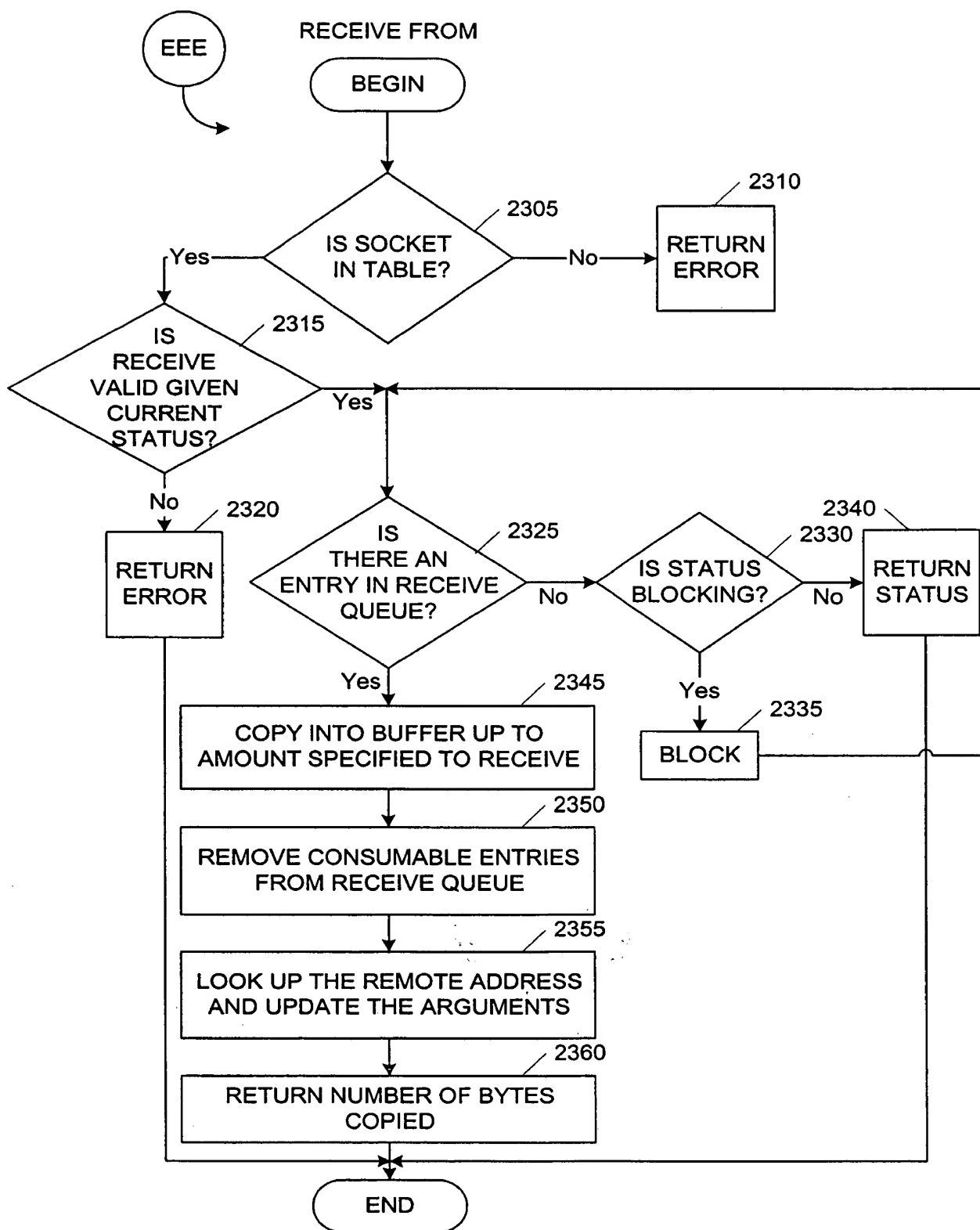


FIG. 23

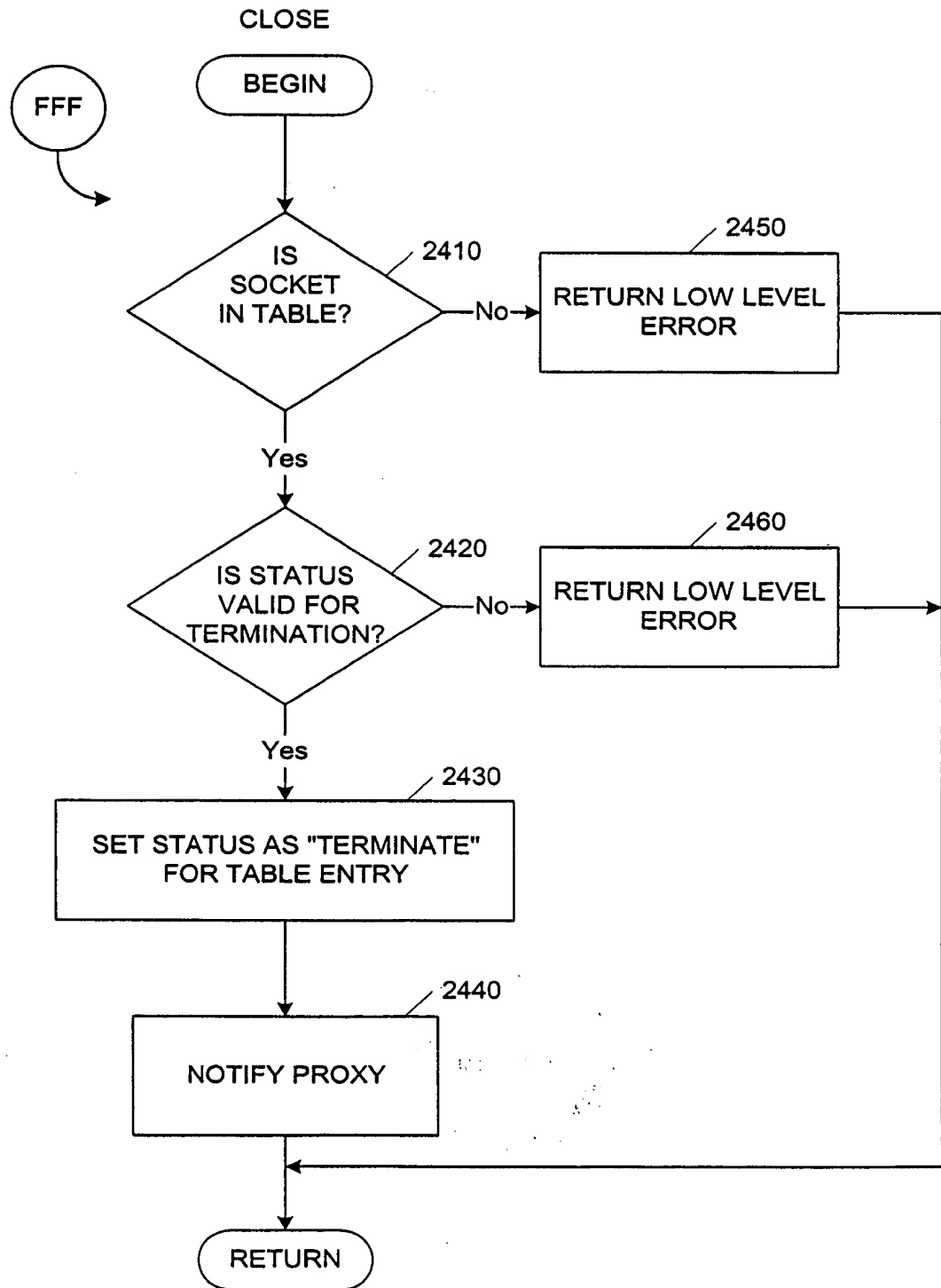


FIG. 24

FIG. 25

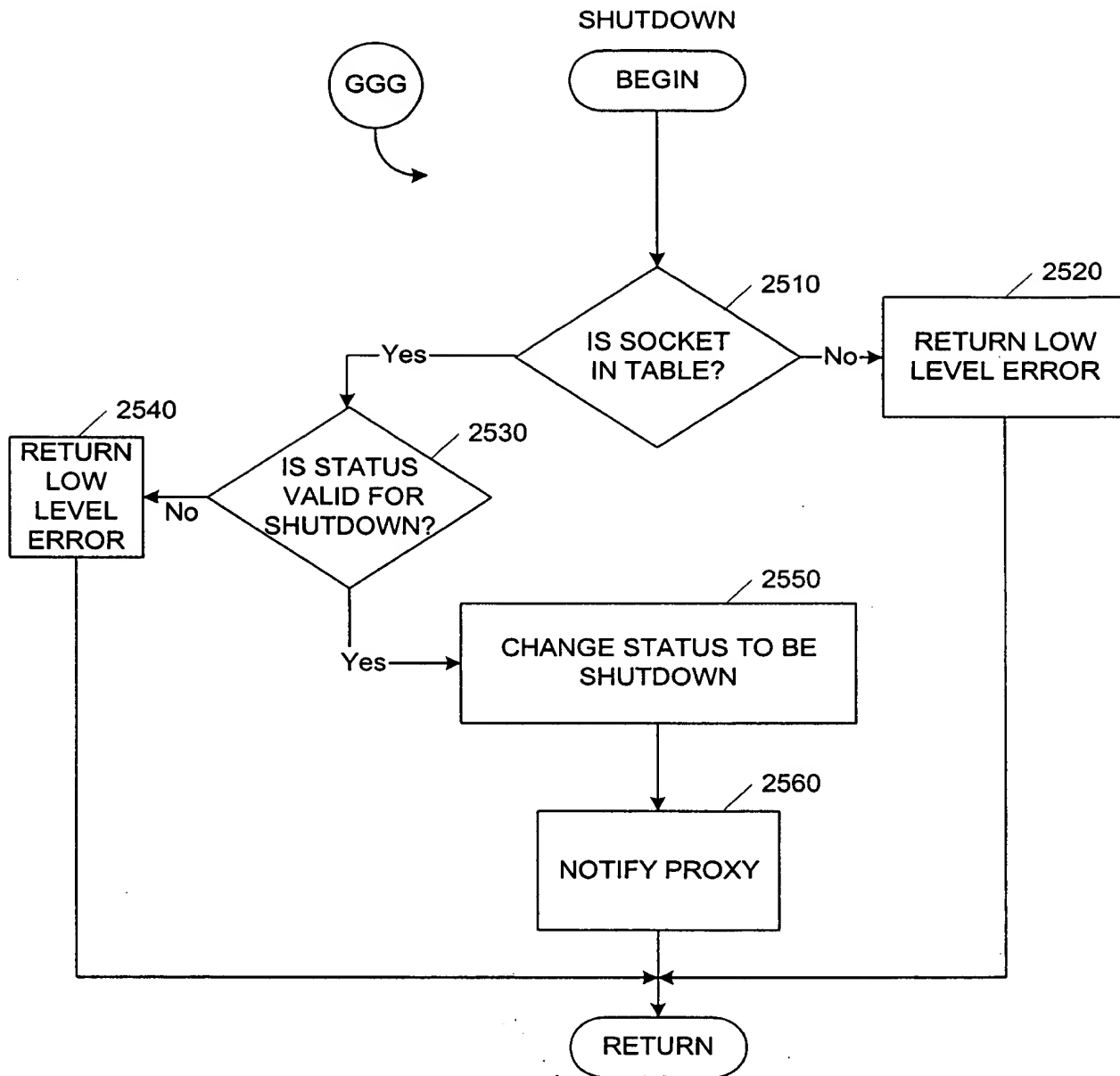


FIG. 25

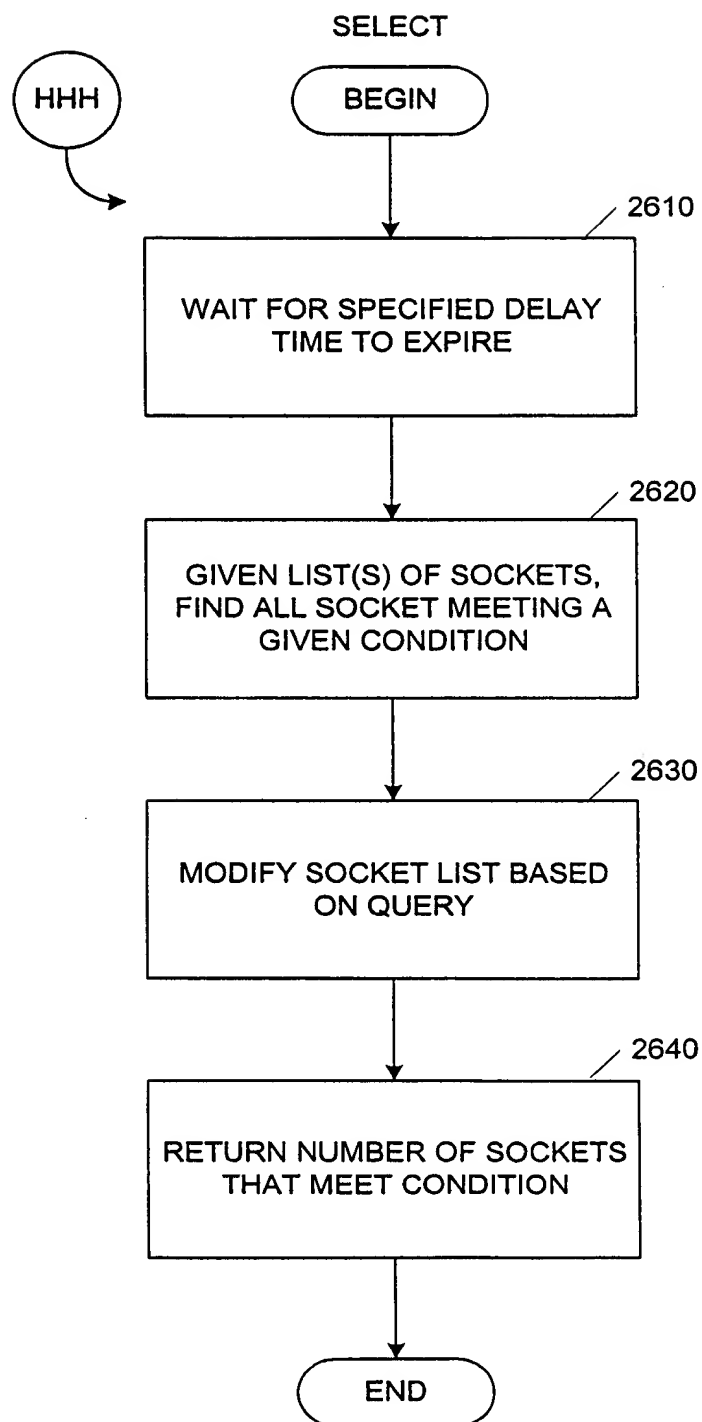


FIG. 26

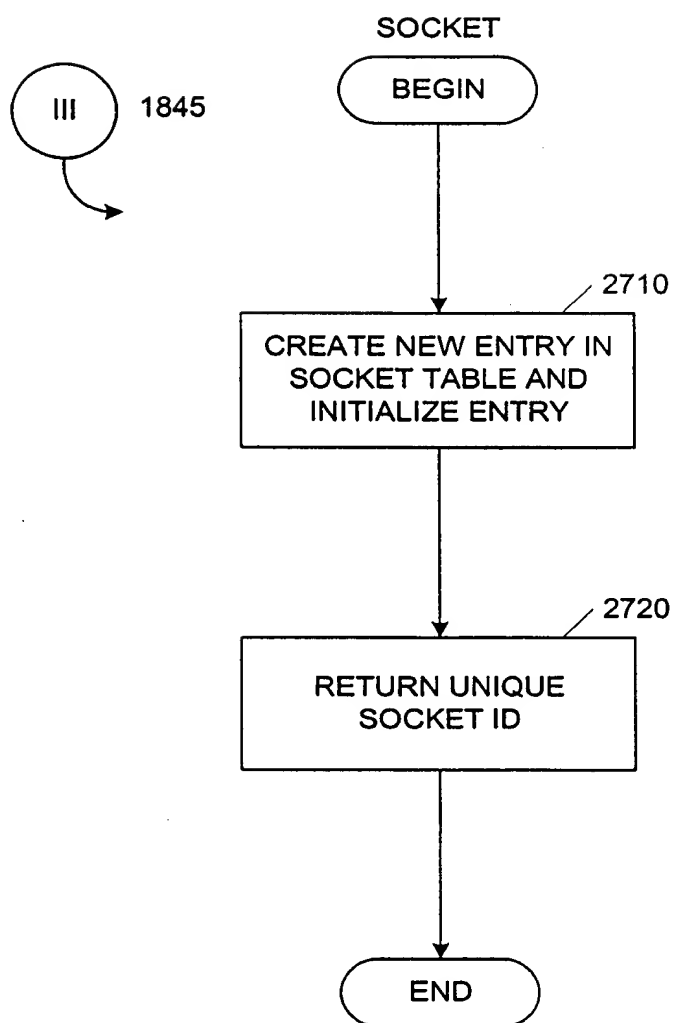
[illegible]

FIG. 27

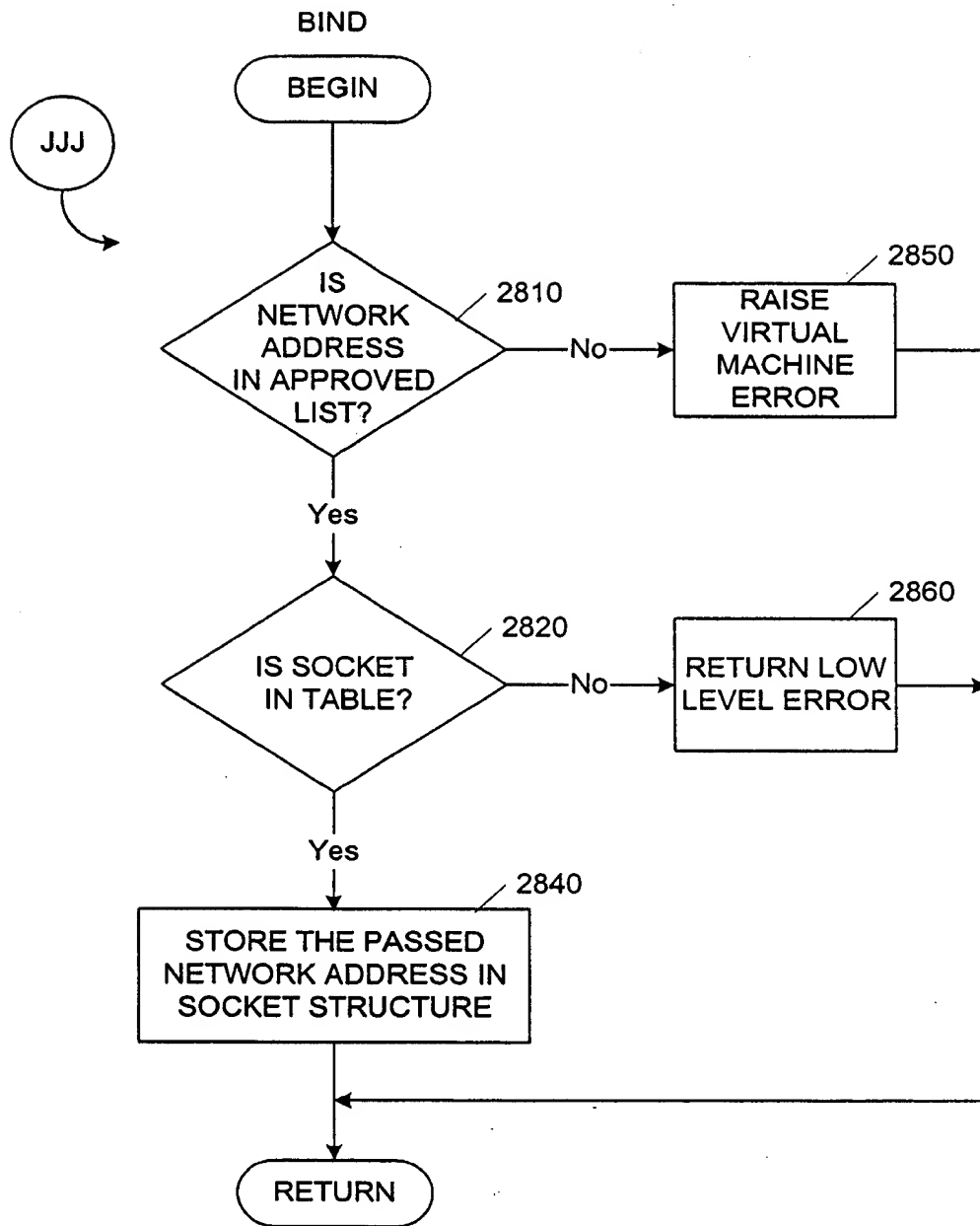


FIG. 28

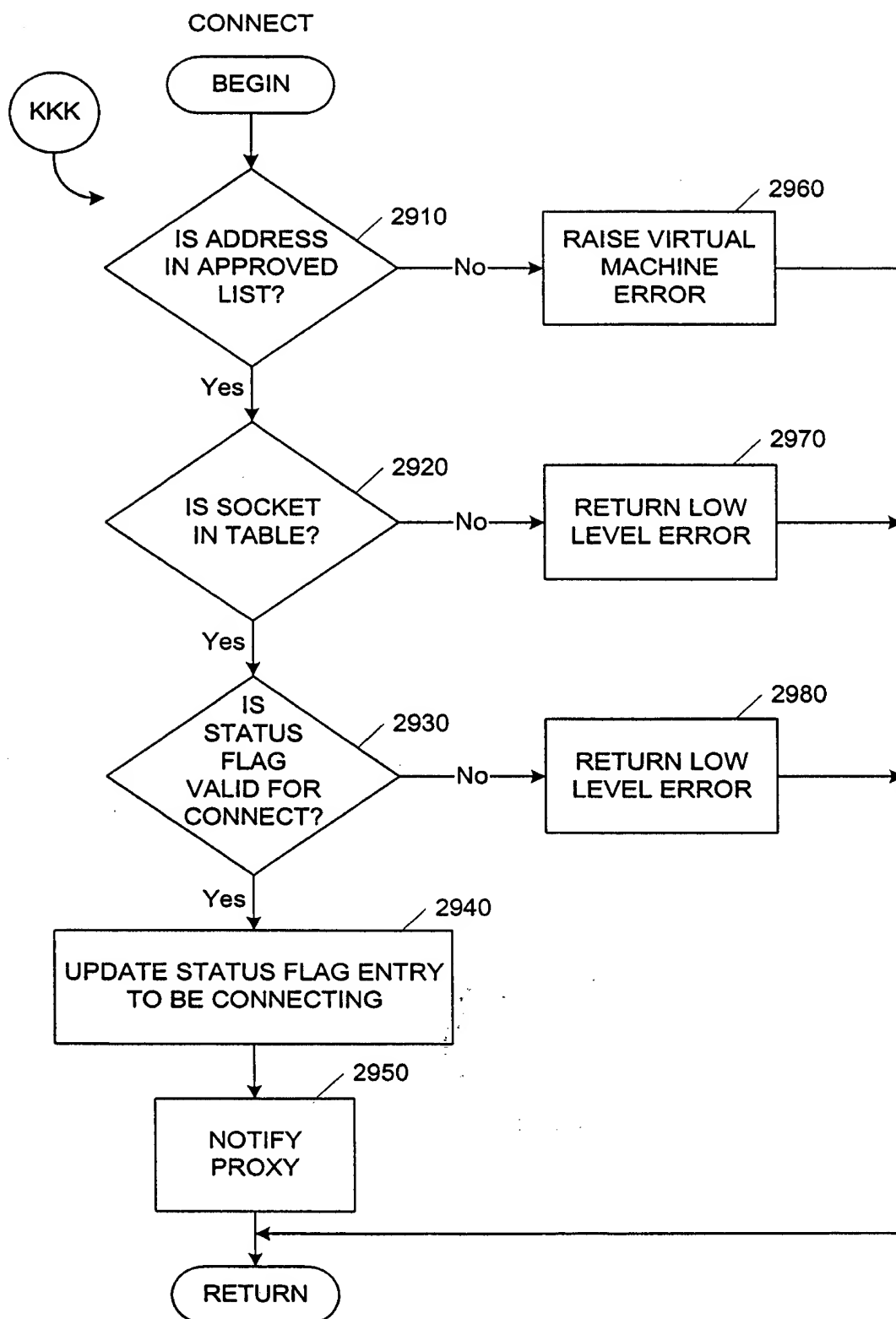


FIG. 29

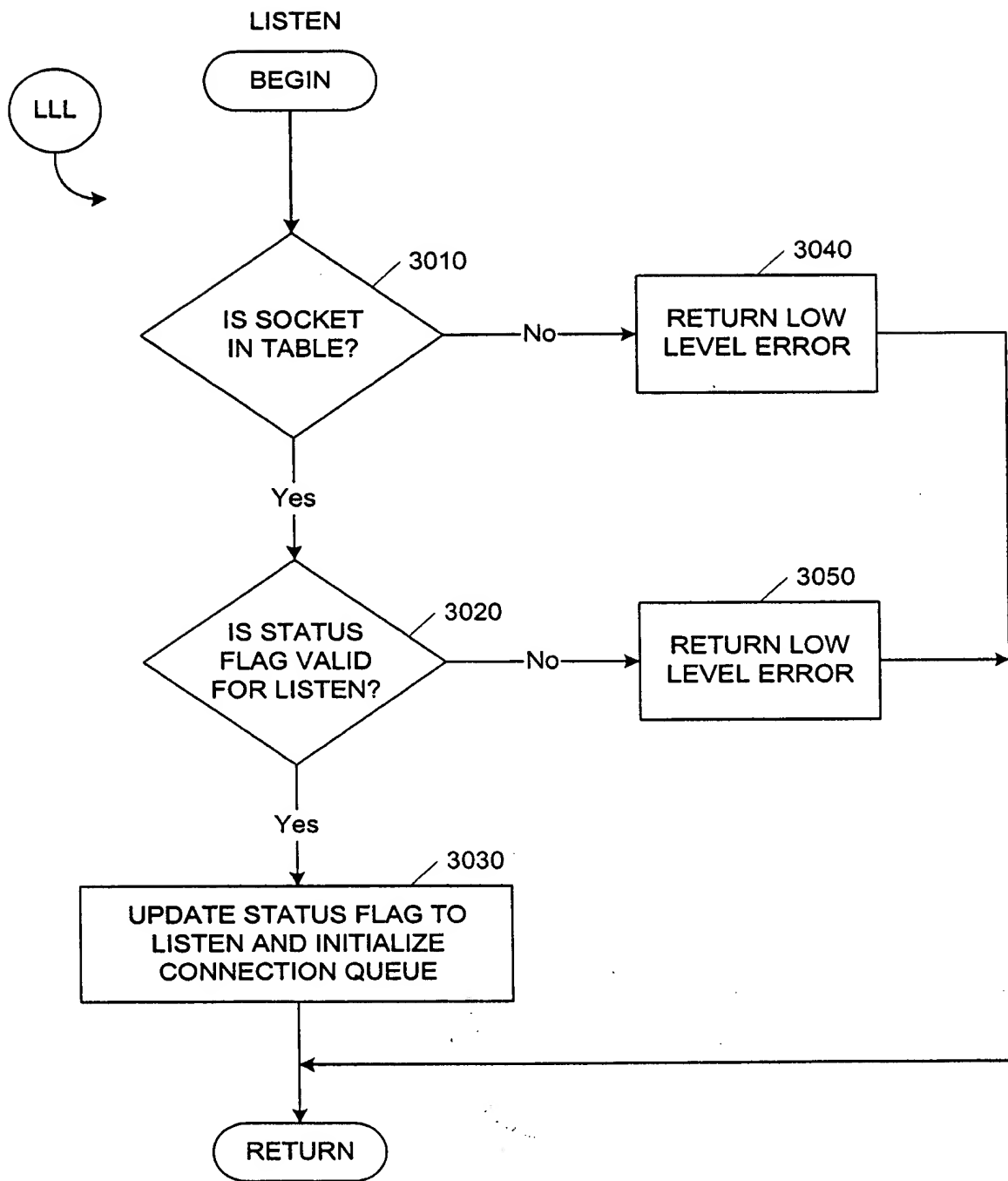


FIG. 30

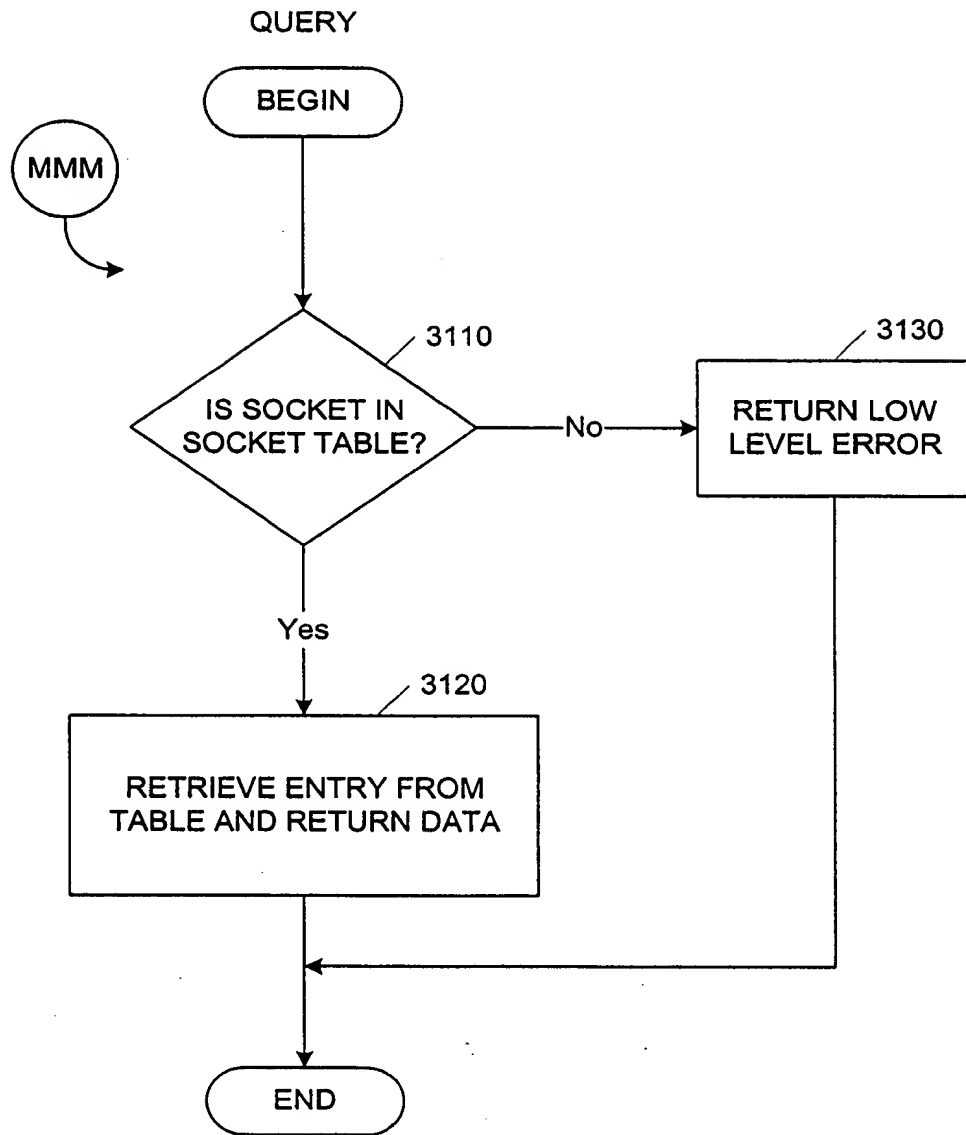


FIG. 31

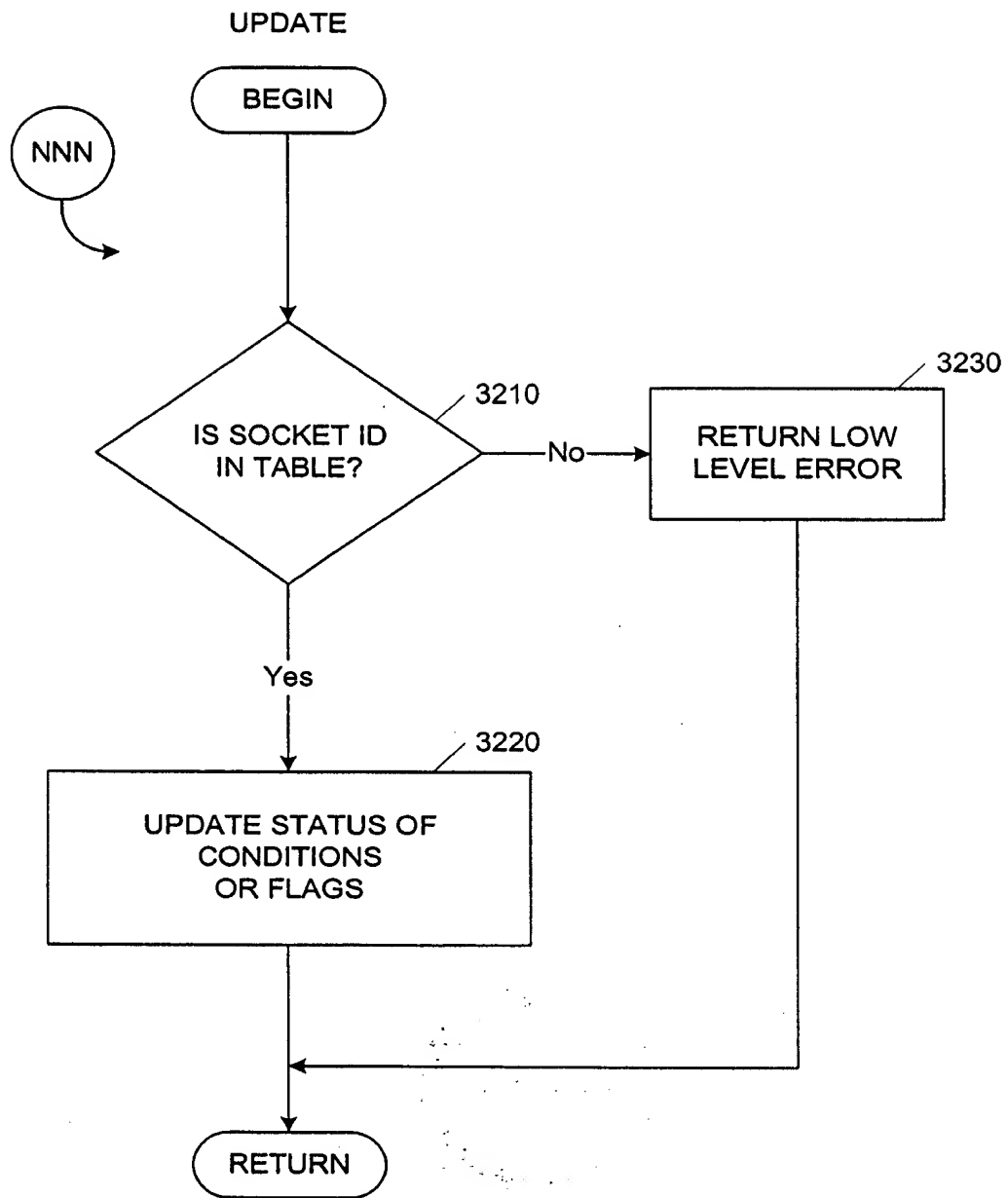


FIG. 32

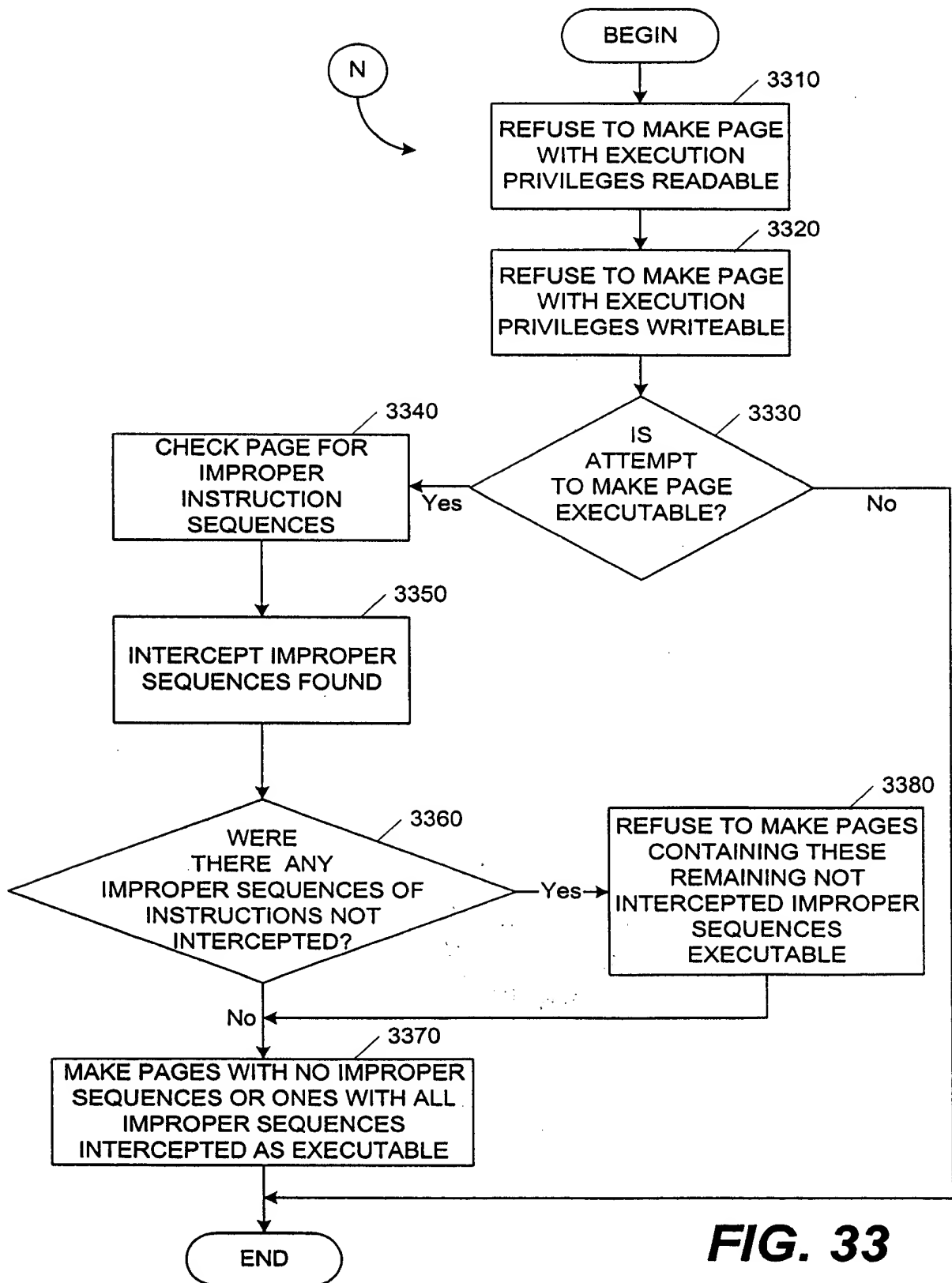


FIG. 33

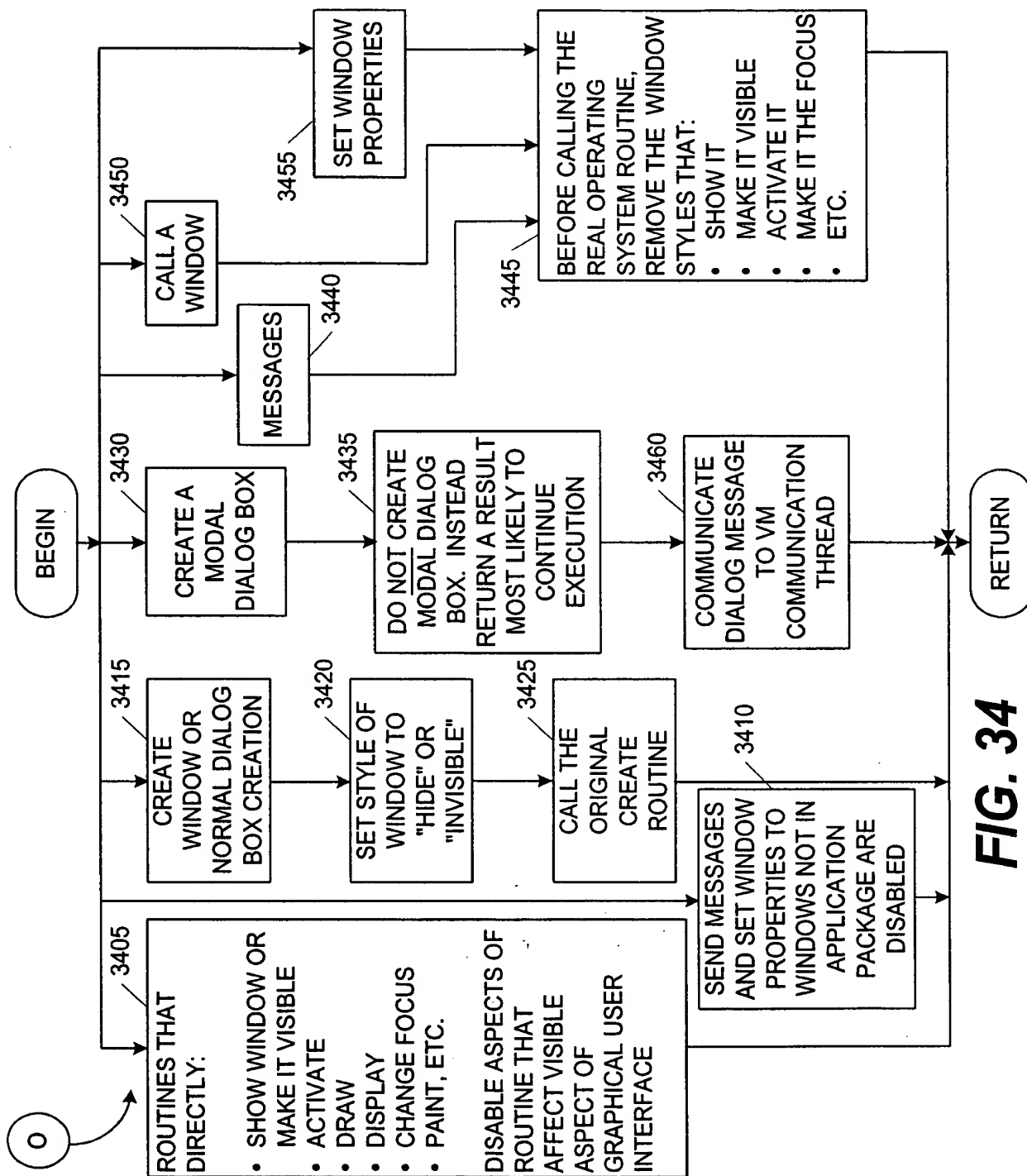


FIG. 34

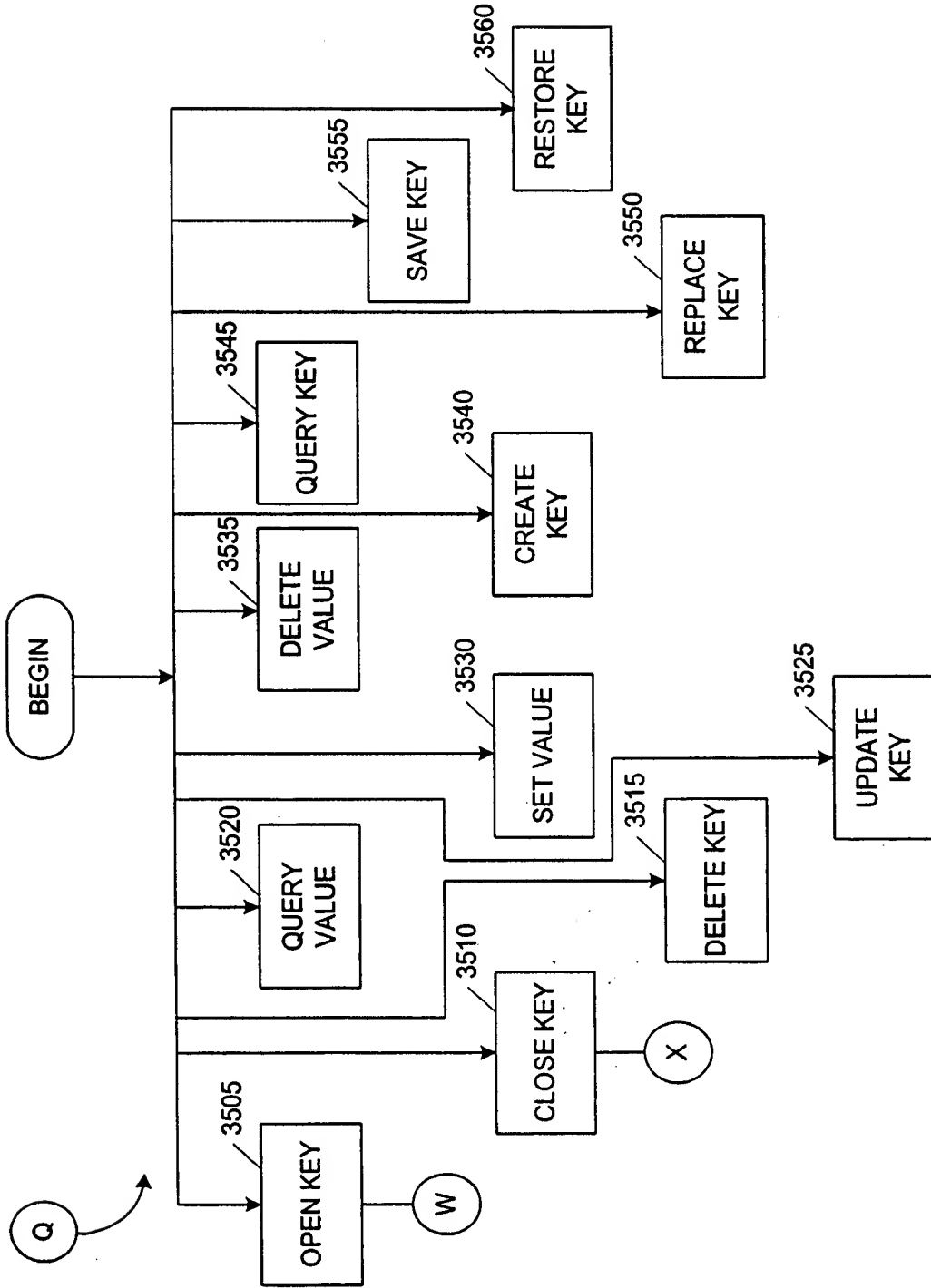


FIG. 35

W

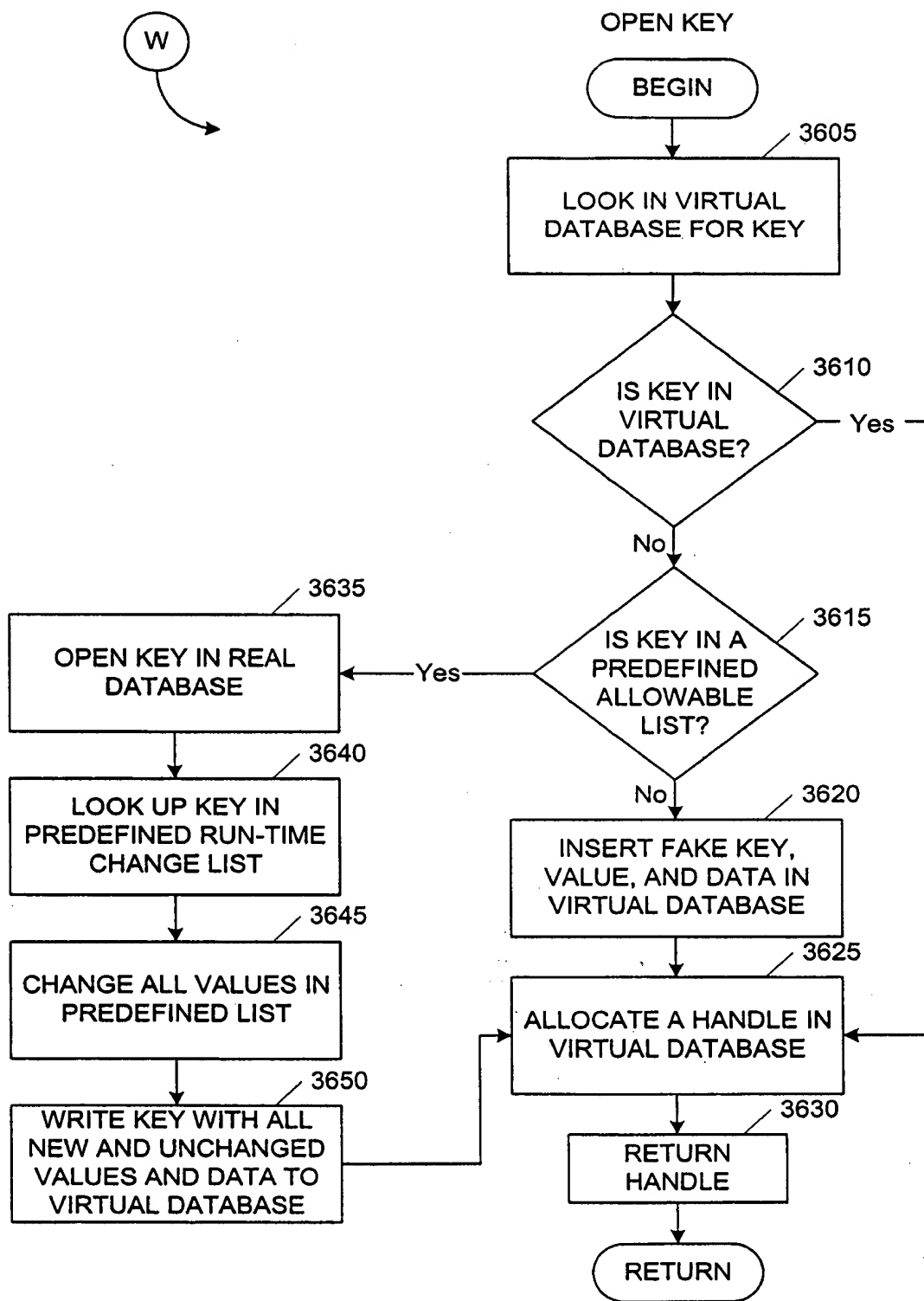


FIG. 36

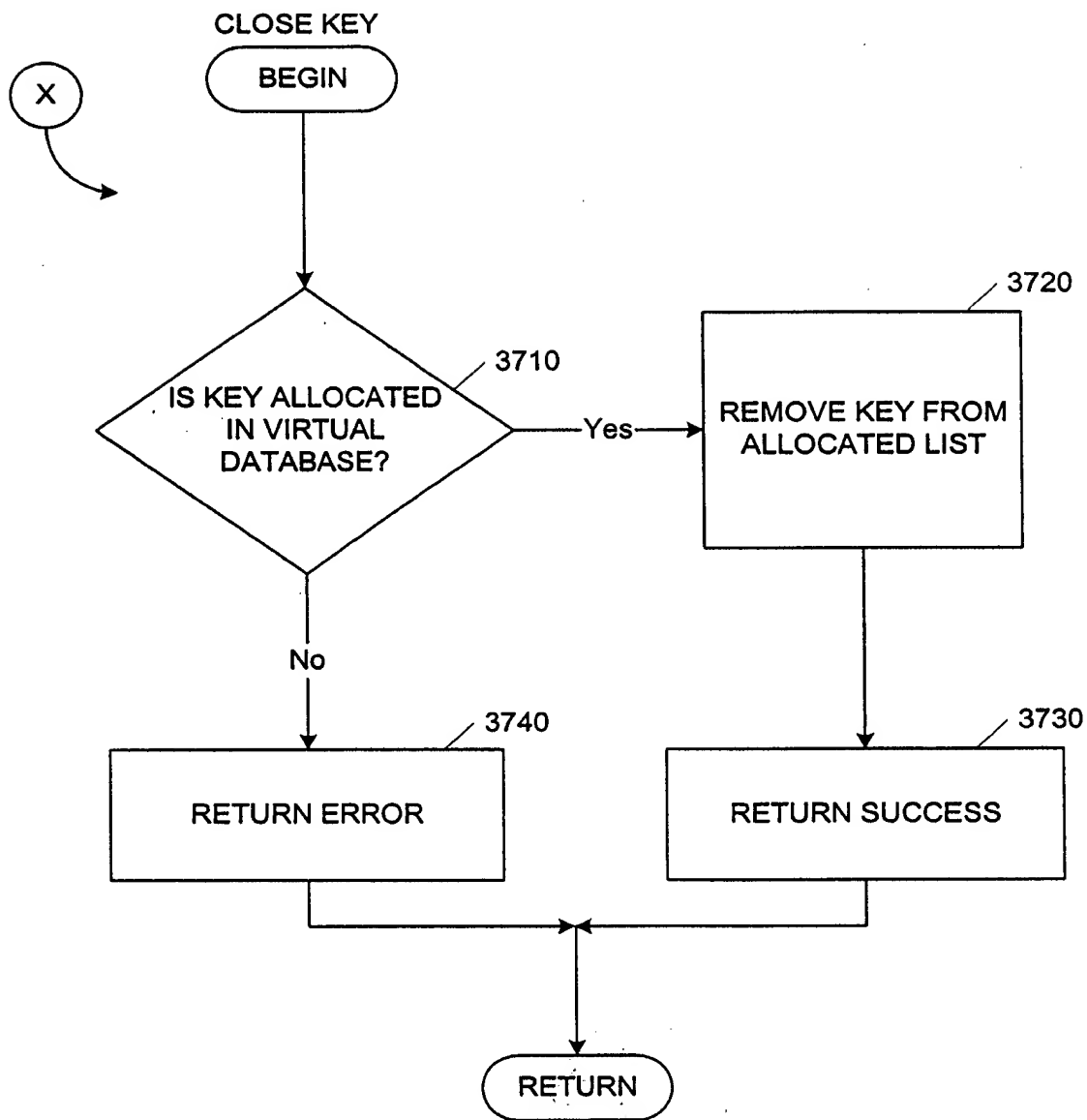


FIG. 37

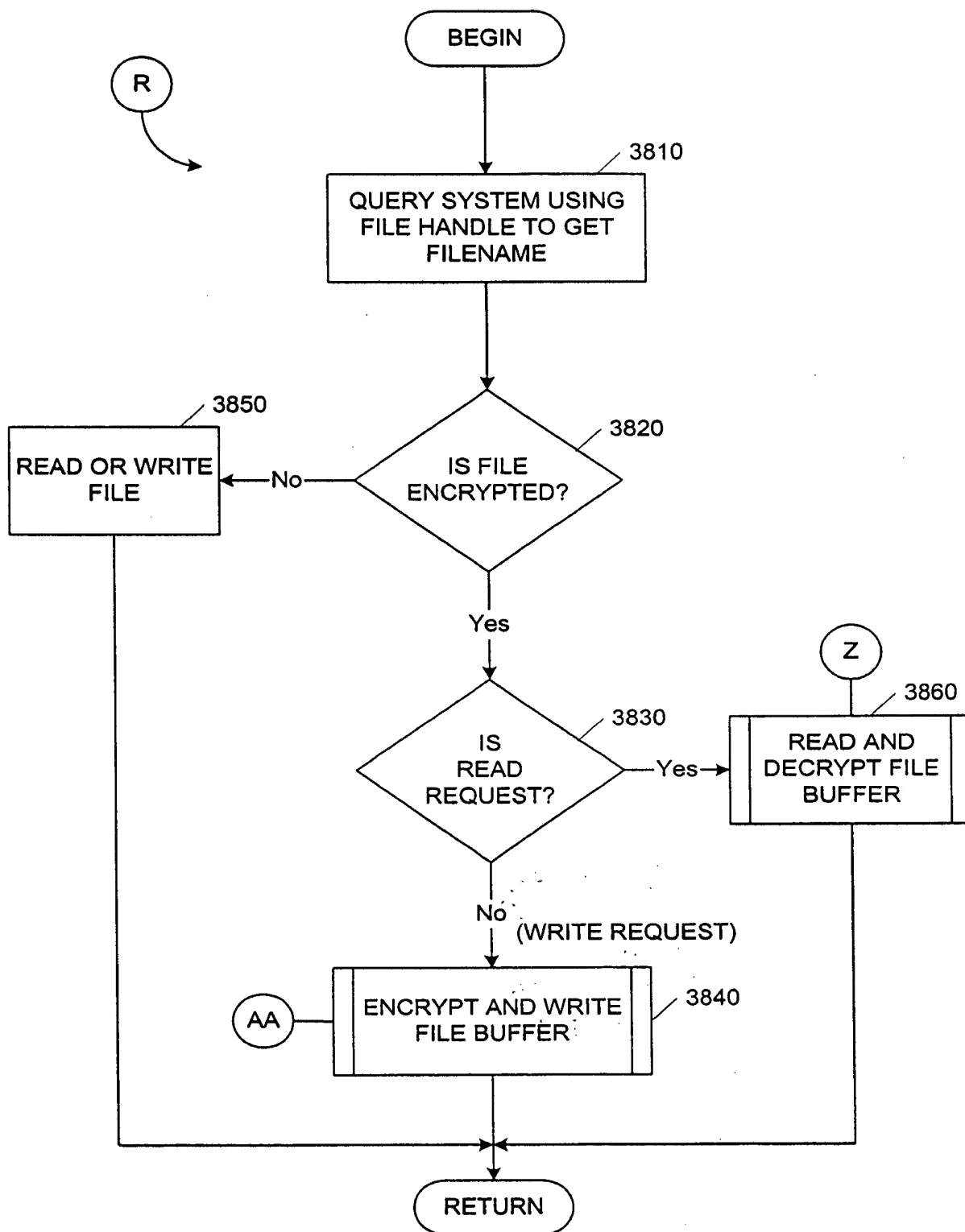


FIG. 38

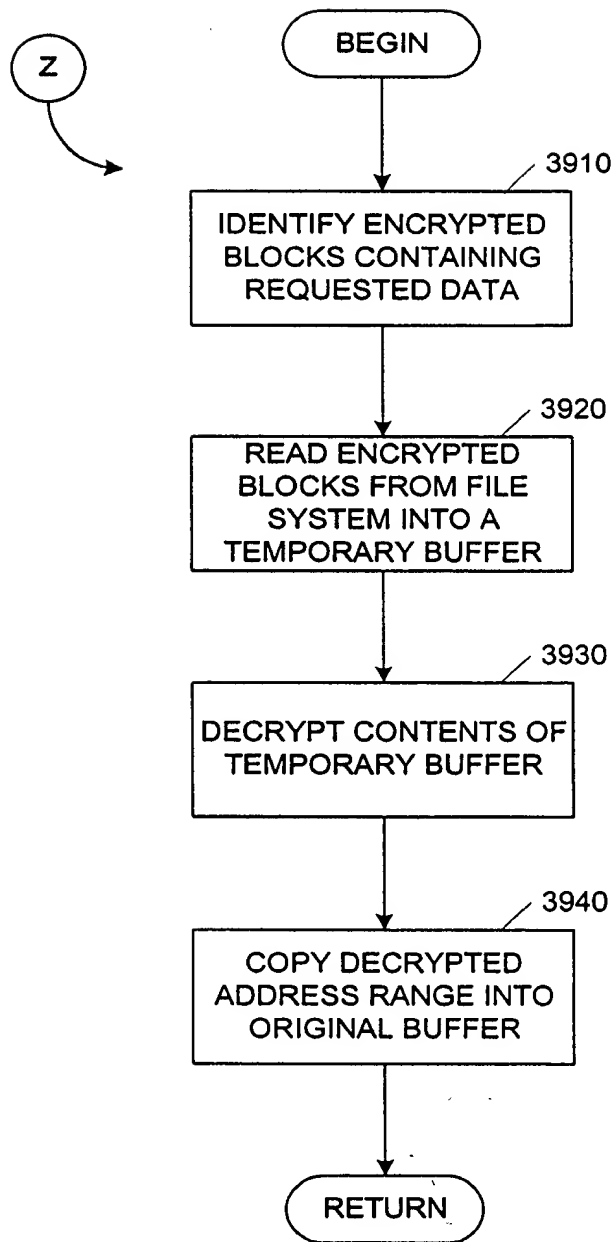


FIG. 39

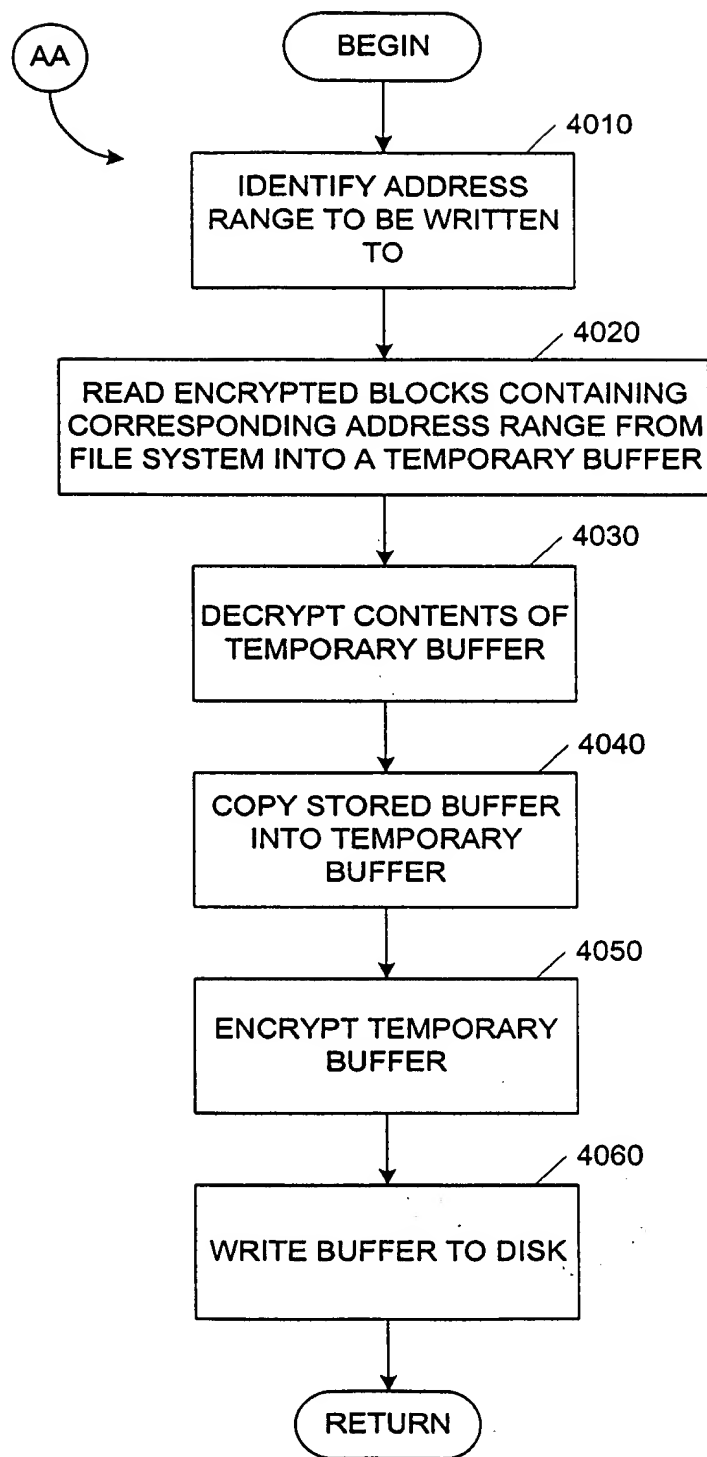


FIG. 40

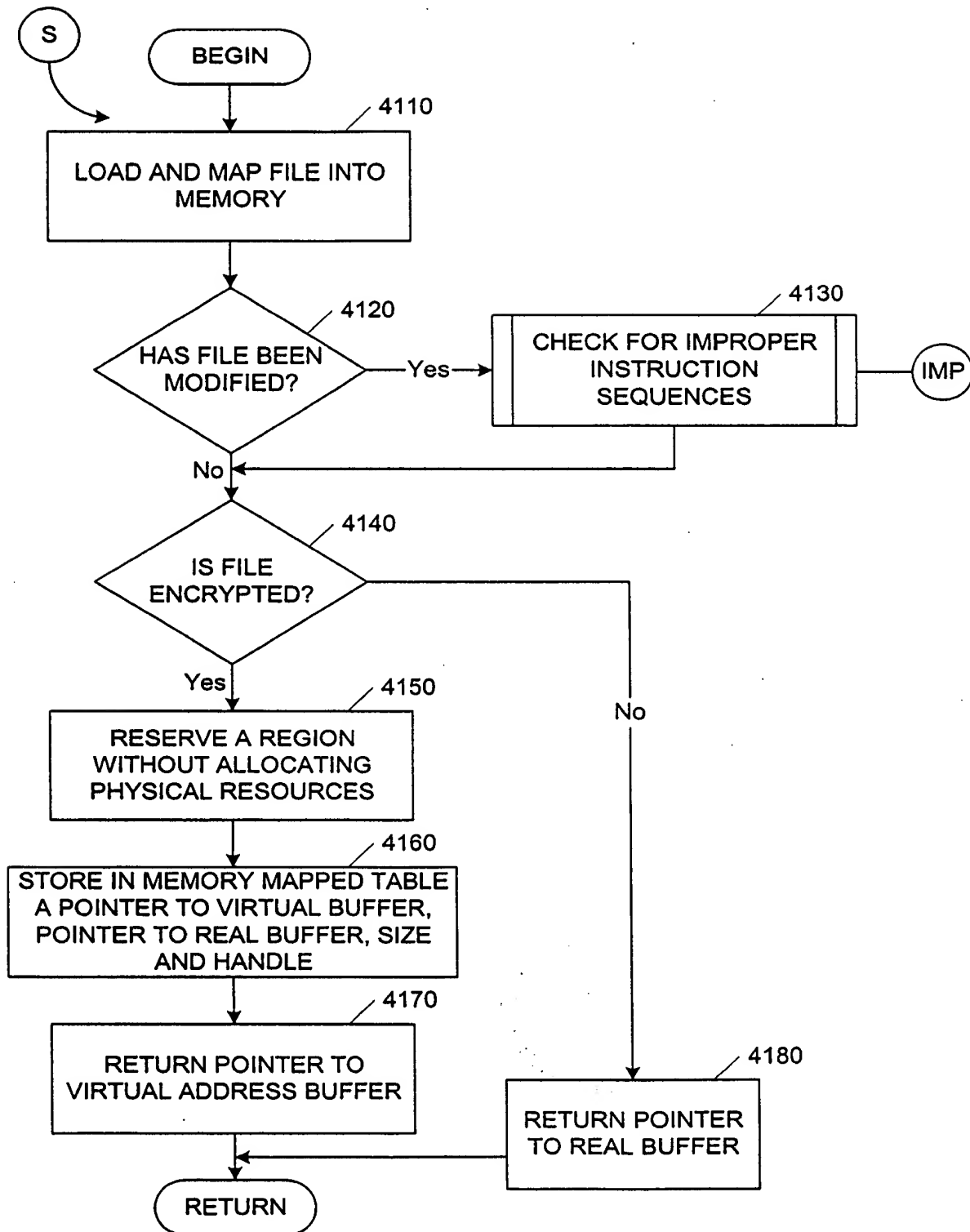


FIG. 41

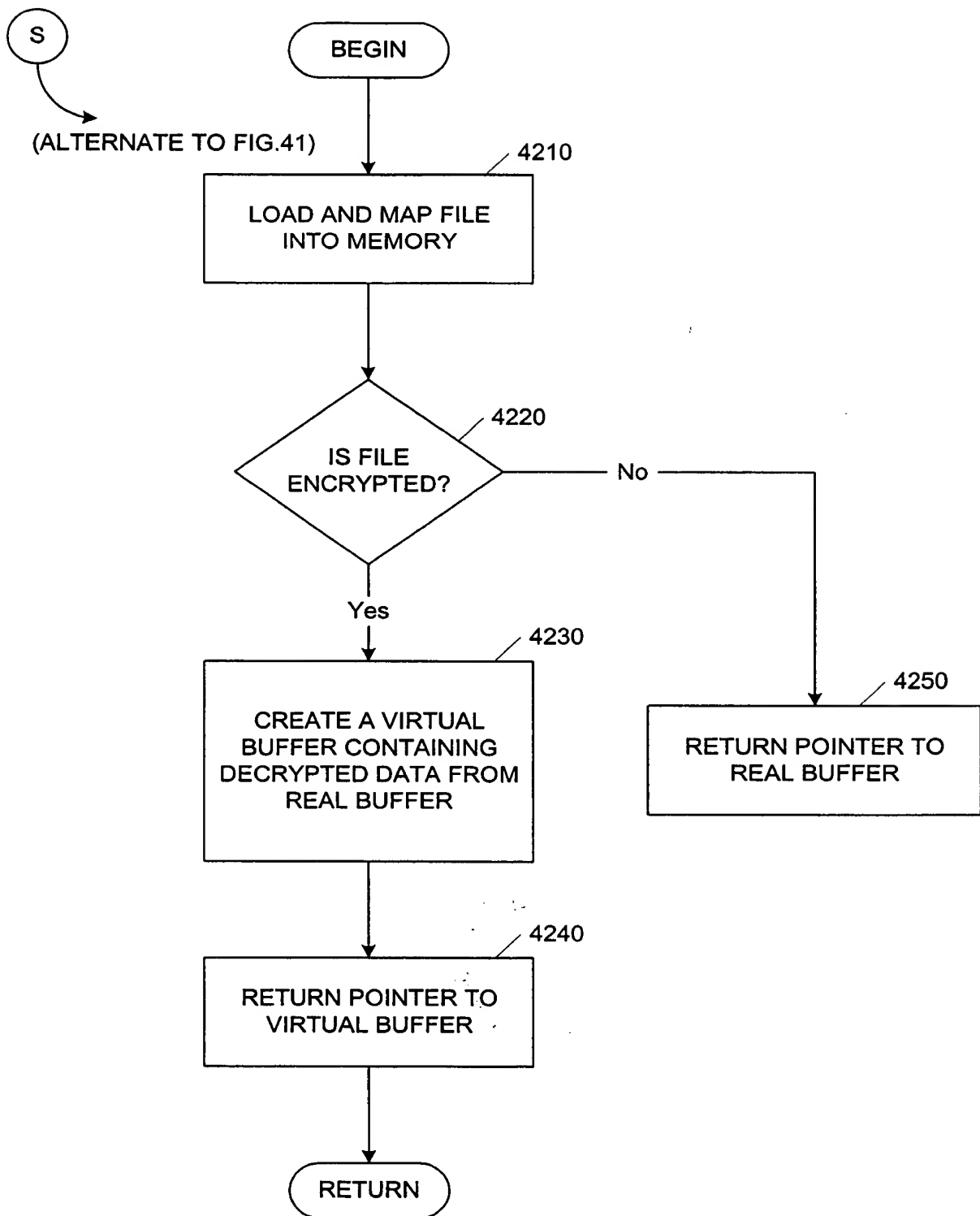


FIG. 42

```

graph TD
    T((T)) --> Entry(( ))
    Entry --> B([BEGIN])
    B --> D{IS BUFFER REAL  
BUFFER OR  
VIRTUAL?}
    D -- Real --> Exit(( ))
    D -- Virtual --> I[IDENTIFY WHICH  
PORTIONS OF BUFFER  
HAVE BEEN MODIFIED]
    I --> E[ENCRYPT IDENTIFIED  
PORTIONS OF MEMORY  
INTO REAL BUFFER]
    E --> C[CALL OPERATING SYSTEM  
WITH REAL BUFFER]
    C --> R([RETURN])
    style Entry fill:none,stroke:none
    style Exit fill:none,stroke:none

```

RETURN

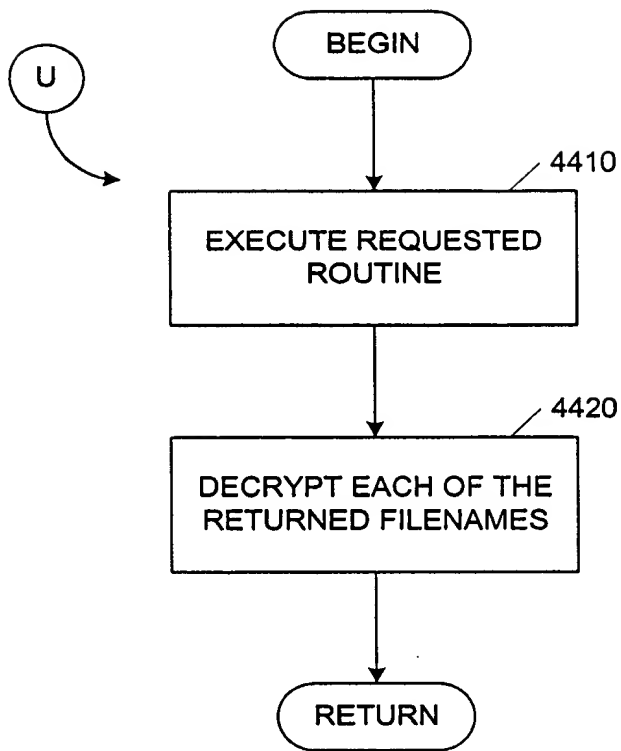


FIG. 44

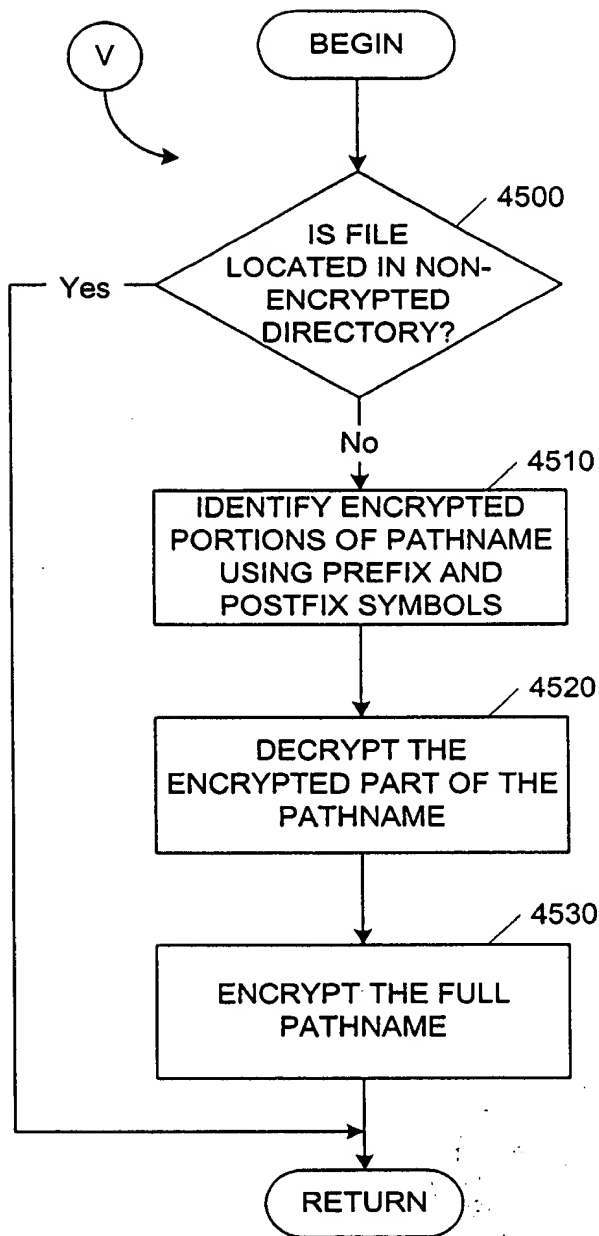


FIG. 45

TRADITIONAL
SYTEM LAYOUT

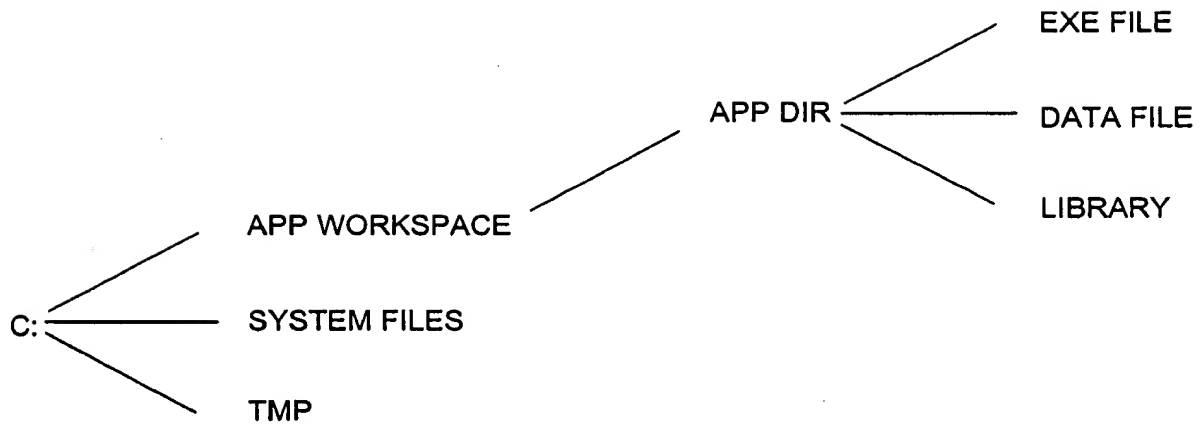


FIG. 46

VIRTUALIZED
SYSTEM LAYOUT

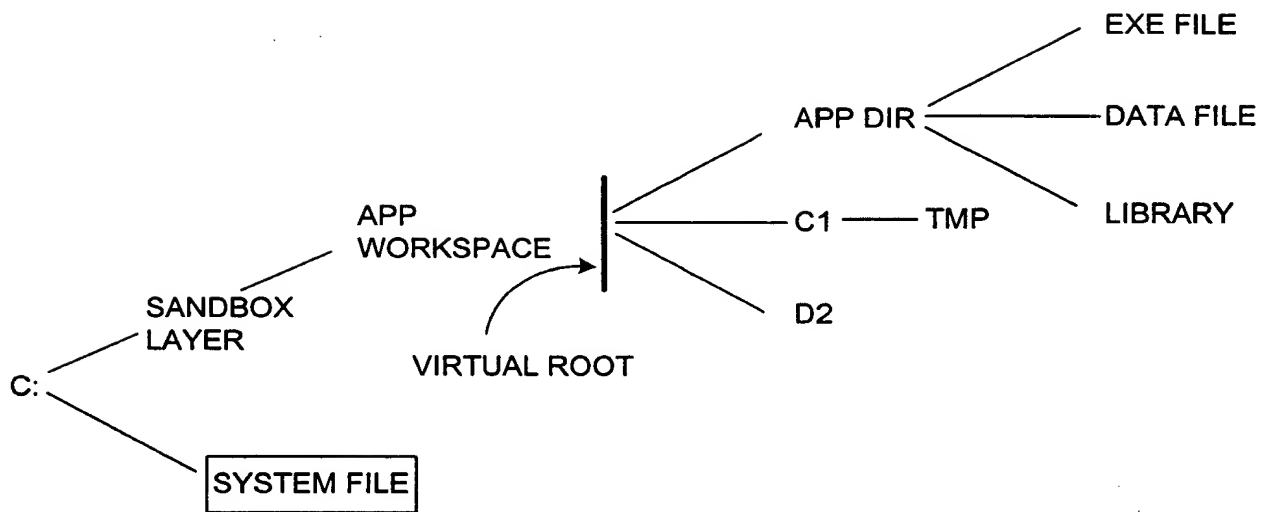
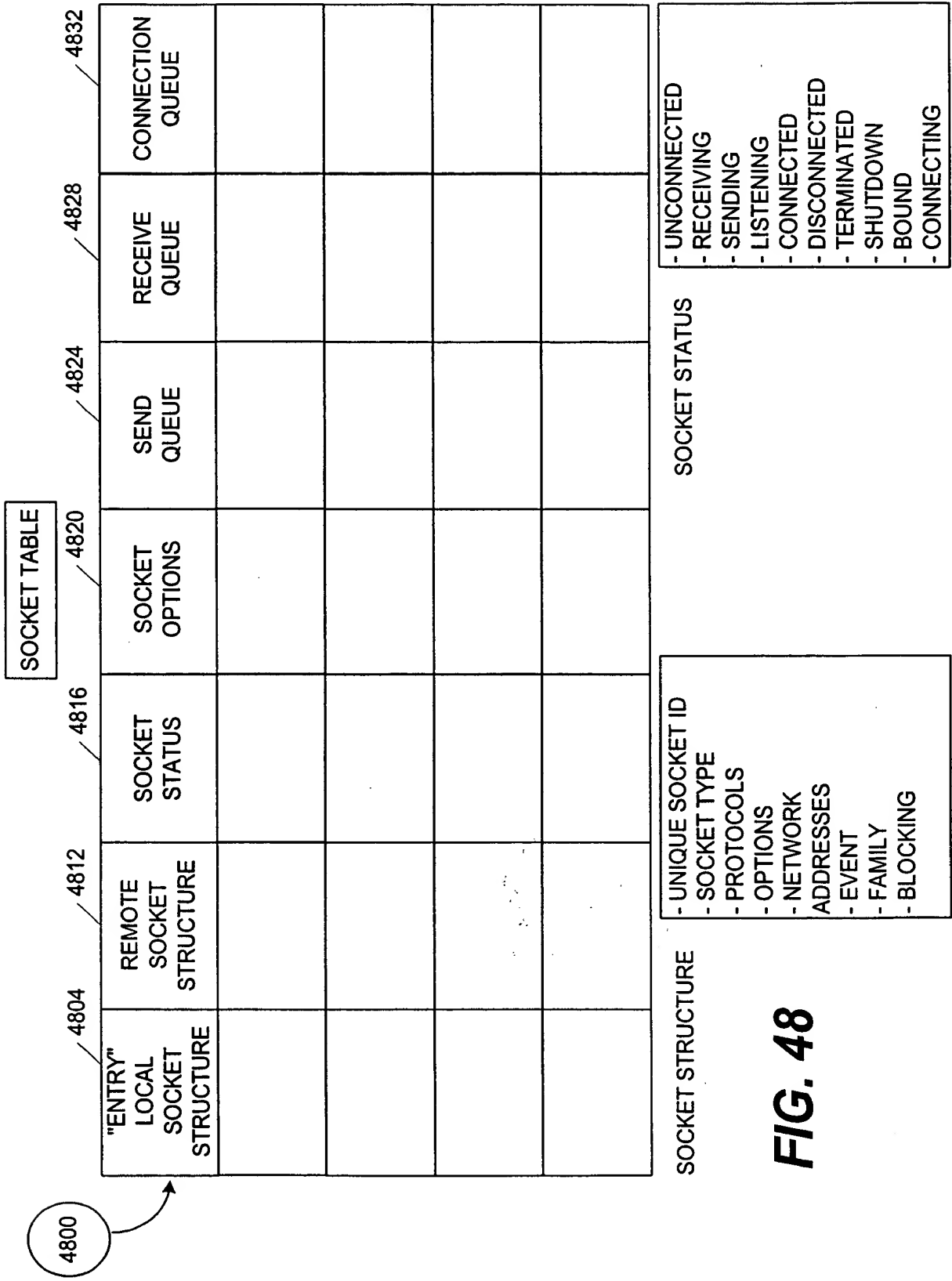


FIG. 47



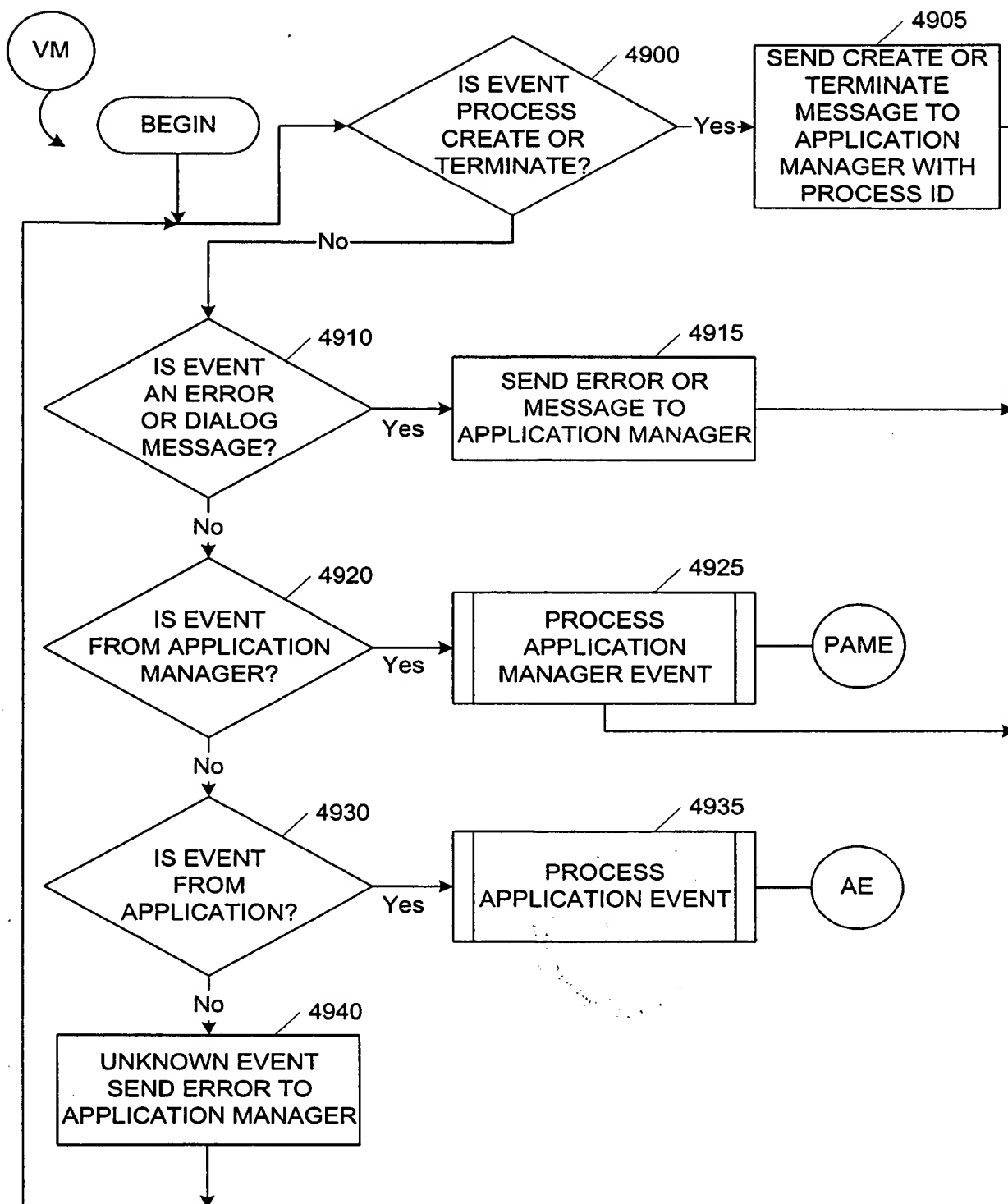


FIG. 49

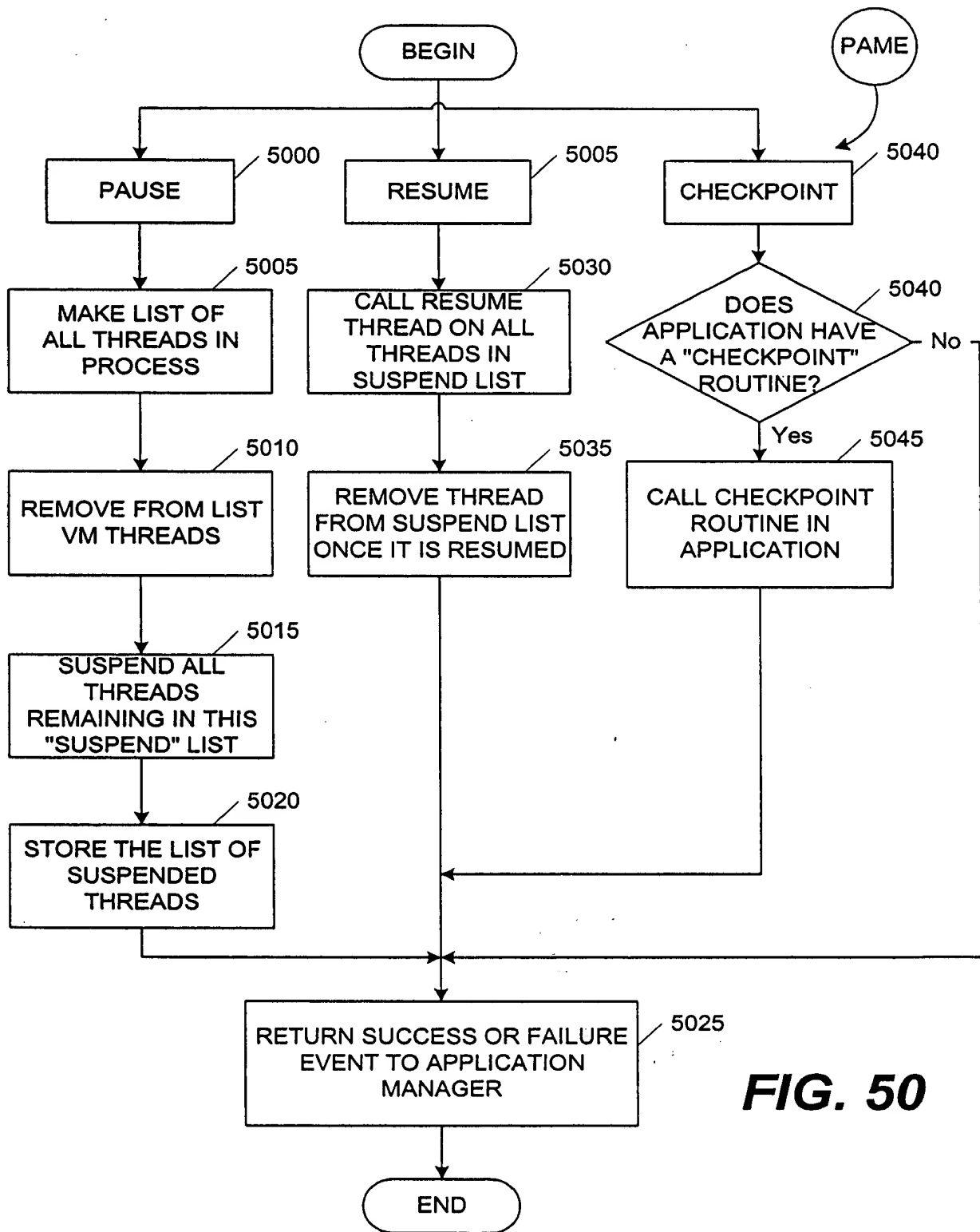


FIG. 50

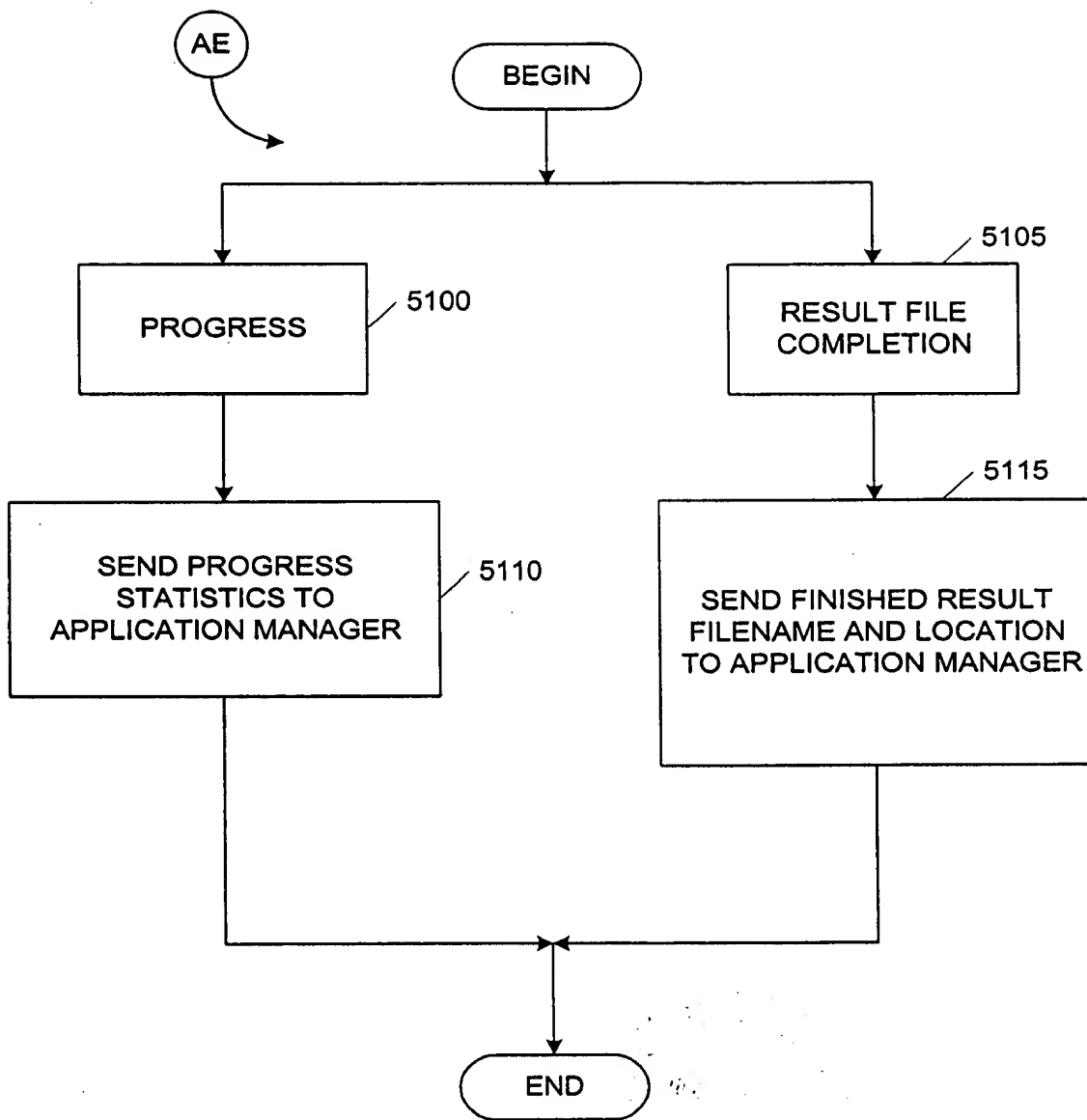


FIG. 51